Assignment 2 – NLP
2022201060

1. Feed Forward Neural Network POS Tagging :

I have implemented a Feed Forward Neural Network (FFNN) model named 'FFNN_Model' for Part-of-Speech (POS) tagging. The model takes embeddings of the target token along with its preceding and succeeding tokens as input.

For example, given the sentence "An apple a day keeps the doctor away" and considering p = 2 and s = 3, the model would take embeddings for ["An", "apple", "a", "day", "keeps", "the"] to predict the POS tag for the word "a".

The architecture consists of an embedding layer, followed by a fully connected layer (FC1) and a final output layer (FC2) for predicting the POS tag. During training, the model computes the loss using negative log-likelihood loss and optimizes the parameters using backpropagation. Finally, the model's performance is evaluated using accuracy metrics.

2. Recurrent Neural Network POS Tagging :

I have implemented a model for POS tagging using a Recurrent Neural Network (RNN), specifically an LSTM (Long Short-Term Memory) model. The model takes the embeddings for all tokens in a sentence and outputs the corresponding POS tags in sequence.

For instance, given the sentence "An apple a day keeps the doctor away," the model processes the embeddings for ["An", "apple", "a", "day", "keeps", "the", "doctor", "away"] to produce the POS tags for each word in the sentence ["DET", "NOUN", "DET", "NOUN", "VERB", "DET", "NOUN", "ADV"].

The architecture consists of an embedding layer, followed by an LSTM layer, and finally a fully connected layer (FC) for predicting the POS tags. During training, the model computes the loss using negative log-likelihood loss and optimizes the parameters using backpropagation. Additionally, the model's performance is evaluated using accuracy metrics.

3. Hyperparameter Tuning :

3.1 Feed Forward Neural Network POS Tagger Hyperparameters used:

Best Configuration:
{'config': {'p': 4, 's': 4, 'emb_dim': 256, 'hidden_dim': 256, 'l_rate': 0.001}, 'epoch_accuracies': [85.5988172001541, 91.34547397381202, 93.2050716105364, 94.08447456782876, 94.59089602328022, 95.15561640113923, 95.47744215289737, 95.58243599295947, 95.76724360097528, 95.94061054833338, 96.14693089041964, 96.14769220090793, 96.19514958135566, 96.31583232106567, 96.3785120244062, 96.52659696941947]}

Evaluation Metrics:

Configuration: {'p': 3, 's': 4, 'emb_dim': 128, 'hidden_dim': 256, 'l_rate': 0.001}
Dev Set Loss: 0.16506005058151674
Dev Set Accuracy: 95.36548301477033
Test Set Loss: 0.17378641299057143
Test Set Accuracy: 95.03486487039035

Configuration: {'p': 4, 's': 4, 'emb_dim': 256, 'hidden_dim': 256, 'l_rate': 0.001}
Dev Set Loss: 0.12286211723747471
Dev Set Accuracy: 96.52659696941947
Test Set Loss: 0.129026093322056
Test Set Accuracy: 95.81376052935974

Configuration: {'p': 2, 's': 4, 'emb_dim': 256, 'hidden_dim': 512, 'l_rate': 0.001}
Dev Set Loss: 0.12220320546560136
Dev Set Accuracy: 96.40927318658784
Test Set Loss: 0.12348212035648576
Test Set Accuracy: 96.10077440527598

3.2 Recurrent Neural Network POS Tagger

Hyperparameters used:

Best Configuration:
{'config': {'num_layers': 1, 'emb_dim': 128, 'hidden_dim': 256, 'l_rate': 0.001}, 'epoch_accuracies': [48.09685822414417, 61.93401223785189, 68.82044253131167, 73.30321437890795, 76.28994798284734, 78.29912055778429, 80.51393812732084, 82.33919649485955, 83.68875950620973, 84.64065277646142, 85.87404943893593, 86.6885765753639, 87.2282209145187, 88.02321435425955, 88.44808589710307, 89.01300373698817, 89.66403908161172, 90.29370202408835, 90.62030419863373, 90.96161829868363, 91.23469277824273, 91.44726296308254, 91.73035561126119, 91.8934090243185, 92.08563022783262, 92.20909180607238, 92.47119342269619, 92.57126542123233, 92.65634087244912, 92.7589264741815, 92.89869418456625, 92.95544157066519, 93.08855653451191, 93.1598531740904, 93.2899960687384, 93.42003312497002, 93.52669441337194, 93.63181714625651, 93.87765972305539, 93.94567406890046, 94.05328892076716, 94.16565537294859, 94.2233403879715, 94.18758547167052, 94.25043500498147, 94.29382847158314, 94.33794051525001, 94.43658110420114, 94.45293491535017, 94.55413797037643]}

Evaluation Metrics:

Configuration: {'num_layers': 1, 'emb_dim': 128, 'hidden_dim': 256, 'l_rate': 0.001}

Dev Set Loss: 0.1866757374609671
Dev Set Accuracy: 94.55413797037643
Test Set Loss: 0.1882900218222896
Test Set Accuracy: 94.80529560864434

Configuration: {'num_layers': 2, 'emb_dim': 256, 'hidden_dim': 512, 'l_rate': 0.001}
Dev Set Loss: 0.20579714101298996
Dev Set Accuracy: 93.77212088224873
Test Set Loss: 0.20378532451296621
Test Set Accuracy: 94.52349322750862

Configuration: {'num_layers': 3, 'emb_dim': 512, 'hidden_dim': 1024, 'l_rate': 0.001}
Dev Set Loss: 0.3366416381265167
Dev Set Accuracy: 90.14771593265164
Test Set Loss: 0.34520844849301957
Test Set Accuracy: 90.49974308960475

4. Analysis:

4.1 Feed Forward Neural Network POS Tagging Experiments
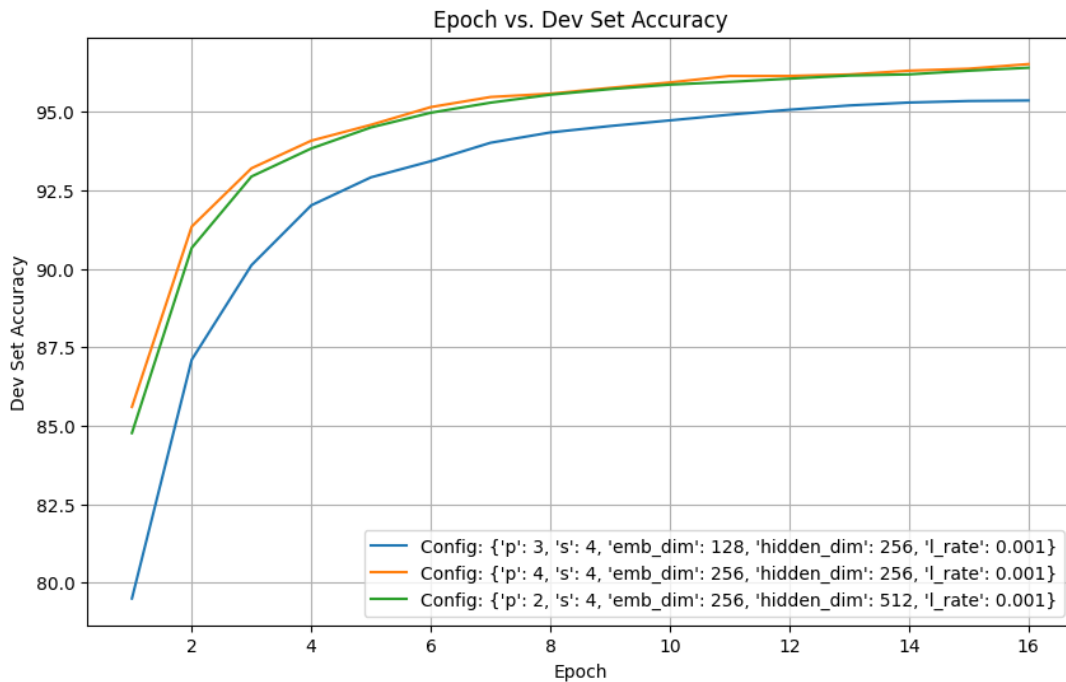
We can observe by looking at the above graph the best-performing Feed Forward Neural Network (FFNN) configuration, with a window size of 4 for both previous and successive tokens, along with an embedding and hidden dimension of 256 each, achieved impressive accuracy rates of 96.53% on the development set and 95.81% on the test set. This configuration outperformed others, such as one with a smaller window size of 3, which achieved slightly

lower accuracy, and another with a larger hidden dimension of 512, which performed comparably well.

Additionally, the FFNN models consistently improved in accuracy over epochs, with the best configuration reaching its peak accuracy after several epochs.

4.2 Recurrent Neural Network POS Tagging Experiments :
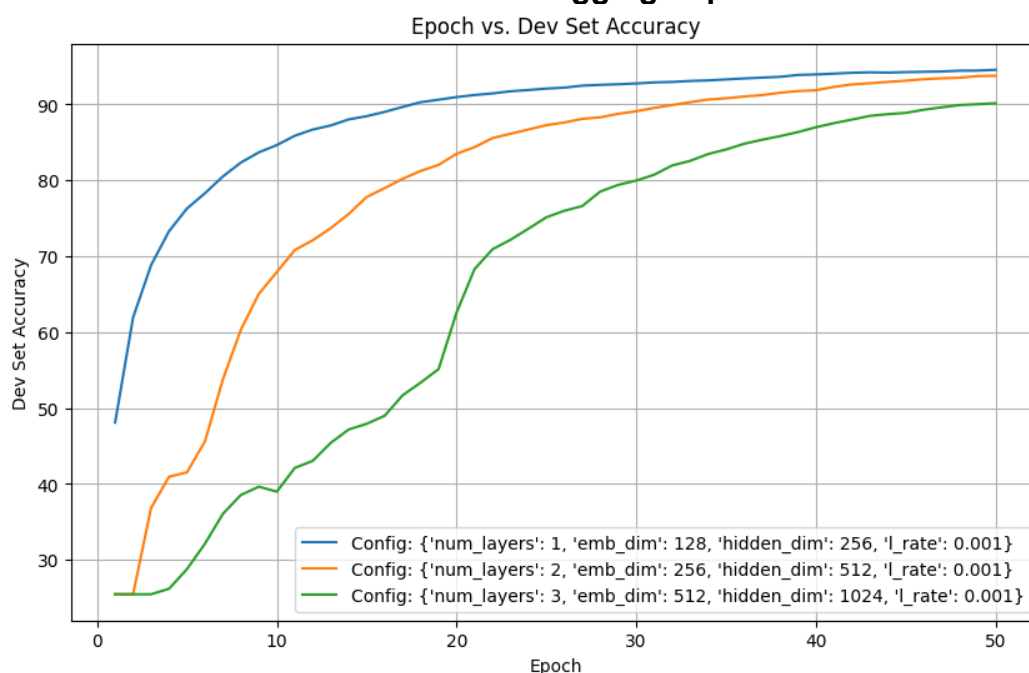
The evaluation of different model configurations reveals interesting insights. The best-performing configuration, with a single layer, an embedding dimension of 128, and a hidden dimension of 256, achieved remarkable accuracy on both the development and test sets, with accuracies of 94.55% and 94.81%, respectively. This indicates that a simpler architecture may yield impressive results in POS tagging tasks specially in the given data set in case of LSTM of RNN based models. In contrast, configurations with two or three layers and larger embedding and hidden dimensions exhibited slightly lower accuracy and higher loss values. For instance, the configuration with three layers and larger dimensions achieved a lower accuracy of 90.15% on the development set and 90.50% on the test set.

Moreover, it is noteworthy that beyond 40 epochs, the models showed only marginal improvements in accuracy, typically in the range of 0.x%. Furthermore, from epoch 45 onwards, the first two configurations performed similarly in terms of accuracy, indicating a plateauing effect in the model's learning curve.

5. Evaluation Metrics:

Sentence: what are the coach flights between dallas and baltimore leaving august tenth and returning august <unk>
True tags: PRON AUX DET NOUN NOUN ADP PROPN CCONJ PROPN VERB NOUN ADJ CCONJ VERB NOUN NUM

Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN CCONJ PROPN VERB NOUN ADJ CCONJ ADJ ADJ AUX

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	0.75	0.86	4
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.33	1.00	0.50	1
8	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	2
accuracy			0.81	16
macro avg	0.88	0.82	0.77	16
weighted avg	0.93	0.81	0.81	16

Sentence: i want a flight from nashville to seattle that arrives no later than 3 pm
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB DET ADJ ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN NOUN NOUN VERB NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.75	0.86	4
3	0.40	1.00	0.57	2
4	0.50	0.50	0.50	2
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.67	15
macro avg	0.82	0.59	0.55	15
weighted avg	0.81	0.67	0.63	15

Sentence: i need a flight leaving kansas city to chicago leaving next wednesday and returning the following day
True tags: PRON VERB DET NOUN VERB PROPN PROPN ADP PROPN VERB ADJ NOUN CCONJ VERB DET VERB NOUN
Predicted tags: PRON VERB DET NOUN VERB VERB PROPN ADP PROPN VERB ADJ NOUN CCONJ ADJ DET ADJ NOUN

Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	0.75	0.60	0.67	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.33	1.00	0.50	1
10	1.00	1.00	1.00	1
accuracy			0.82	17
macro avg	0.89	0.91	0.87	17
weighted avg	0.89	0.82	0.84	17

Sentence: explain meal codes <unk> <unk>
True tags: VERB NOUN NOUN PROPN PROPN
Predicted tags: NOUN NOUN PROPN PROPN AUX
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.50	0.50	2
3	0.50	0.50	0.50	2
4	1.00	0.00	0.00	1
8	0.00	1.00	0.00	0
accuracy			0.40	5
macro avg	0.50	0.50	0.25	5
weighted avg	0.60	0.40	0.40	5

Sentence: show me all flights from atlanta to san francisco which leave the day after tomorrow after 5 <unk> pm
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB DET NOUN ADP NOUN ADP NUM ADV NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN DET VERB DET NOUN ADP NOUN ADP NUM AUX NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	0.67	1.00	0.80	2
6	1.00	0.50	0.67	2
8	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.89	19
macro avg	0.85	0.83	0.72	19
weighted avg	0.96	0.89	0.89	19

Sentence: i need a flight from toronto to montreal reaching montreal early on friday
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN VERB PROPN ADJ ADP NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.93	0.93	13
weighted avg	0.94	0.92	0.92	13

Sentence: are there any flights from new york to montreal canada leaving on thursday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN
Predicted tags: AUX PRON DET NOUN ADP PROPN PROPN ADP PROPN NOUN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.81	0.89	0.76	13
weighted avg	0.95	0.85	0.87	13

Sentence: show me ground transportation in philadelphia on monday morning
True tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: find a flight from toronto to san diego with a layover in dc on delta airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what is restriction ap80
True tags: PRON AUX NOUN PROPN
Predicted tags: PRON AUX NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: list the arizona airport
True tags: VERB DET PROPN PROPN
Predicted tags: VERB DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	2
3	0.00	1.00	0.00	0
4	1.00	1.00	1.00	1

5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.50	4
macro avg	0.75	0.75	0.50	4
weighted avg	1.00	0.50	0.50	4

Sentence: what are the nonstop flights on america west or southwest air from kansas city to burbank on saturday may twenty two
True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN CCONJ PROPN PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM NUM
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN NOUN ADJ ADJ PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	0.71	0.77	7
2	1.00	1.00	1.00	4
3	0.80	1.00	0.89	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
10	1.00	0.00	0.00	1
accuracy			0.81	21
macro avg	0.85	0.80	0.70	21
weighted avg	0.91	0.81	0.82	21

Sentence: what times does the late afternoon flight leave from washington for denver
True tags: DET NOUN AUX DET ADJ NOUN NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON AUX AUX DET NOUN NOUN NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	0.67	0.67	3
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
accuracy			0.75	12
macro avg	0.77	0.77	0.62	12
weighted avg	0.88	0.75	0.75	12

Sentence: what does the meal code s stand for
True tags: PRON AUX DET NOUN NOUN PROPN VERB ADP
Predicted tags: PRON AUX DET NOUN NOUN PROPN PROPN ADP
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.93	0.86	0.81	8
weighted avg	0.94	0.88	0.83	8

Sentence: is there ground transportation from the memphis airport into town when if i arrive at <unk> in the morning
True tags: VERB PRON NOUN NOUN ADP DET PROPN PROPN ADP PROPN ADV ADP PRON VERB ADP NUM ADP DET NOUN
Predicted tags: AUX PRON NOUN NOUN ADP DET PROPN PROPN PROPN NOUN PROPN VERB PRON VERB ADP AUX ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.67	0.57	3
2	1.00	0.60	0.75	5
3	0.75	1.00	0.86	3
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.68	19
macro avg	0.75	0.64	0.52	19
weighted avg	0.83	0.68	0.69	19

Sentence: what flights between dfw and oakland arrive in oakland between <unk> am and <unk> pm
True tags: DET NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN ADP NUM NOUN CCONJ NUM NOUN
Predicted tags: PRON NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN ADP PROPN NOUN CCONJ PROPN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	2
accuracy			0.80	15
macro avg	0.82	0.75	0.59	15
weighted avg	0.92	0.80	0.75	15

Sentence: what are the flights on mondays that travel from charlotte north carolina to phoenix arizona
True tags: PRON AUX DET NOUN ADP PROPN ADP VERB ADP PROPN ADV PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN ADP VERB ADP PROPN PROPN PROPN ADP PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.60	0.67	5
2	1.00	1.00	1.00	4
3	0.50	1.00	0.67	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.84	0.82	0.75	15
weighted avg	0.85	0.80	0.78	15

Sentence: what kind of ground transportation is there in washington dc
True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN PROPN
Predicted tags: PRON NOUN ADP NOUN NOUN AUX PRON ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.80	10

	precision	recall	f1-score	support
macro avg	0.79	0.71	0.52	10
weighted avg	0.95	0.80	0.77	10

Sentence: in economy class from dallas to baltimore arriving july seventh i <unk> like to know what <unk> the cheapest ticket possible
True tags: ADP NOUN NOUN ADP PROPN ADP PROPN VERB NOUN ADJ PRON AUX VERB PART VERB PRON AUX DET ADJ NOUN ADJ
Predicted tags: ADP PROPN NOUN ADP PROPN ADP PROPN VERB NOUN NOUN PRON AUX VERB PART VERB PRON AUX DET ADJ NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.60	0.75	0.67	4
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.33	0.50	3
8	1.00	1.00	1.00	2
12	1.00	1.00	1.00	1
accuracy			0.86	21
macro avg	0.92	0.90	0.89	21
weighted avg	0.89	0.86	0.85	21

Sentence: show flights from baltimore to san francisco between 6 pm and 8 pm on friday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN CCONJ NUM NOUN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP PROPN NOUN CCONJ PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
accuracy			0.87	15
macro avg	0.93	0.83	0.79	15
weighted avg	0.92	0.87	0.82	15

Sentence: what meals are available on dl <unk> which <unk> arrives in san francisco at <unk> am
True tags: DET NOUN AUX ADJ ADP PROPN NUM DET PROPN VERB ADP PROPN PROPN ADP NUM NOUN

Predicted tags: PRON NOUN AUX ADJ ADP PROPN PROPN DET AUX PROPN ADP PROPN PROPN ADP PROPN NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.50	0.75	0.60	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
9	1.00	0.00	0.00	2
accuracy			0.69	16
macro avg	0.78	0.69	0.55	16
weighted avg	0.84	0.69	0.65	16

Sentence: i want to fly from kansas city to chicago next wednesday arriving in the evening and returning the next day

True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN VERB ADP DET NOUN CCONJ VERB DET ADJ NOUN

Predicted tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN PROPN NOUN VERB ADP DET NOUN CCONJ ADJ DET ADJ NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.75	0.86	4
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.50	0.50	0.50	2
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.90	20
macro avg	0.92	0.92	0.91	20
weighted avg	0.91	0.90	0.90	20

Sentence: please book for me a flight on twa from washington dc to san francisco earliest possible time

True tags: INTJ VERB ADP PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN ADV ADJ NOUN

Predicted tags: INTJ NOUN ADP PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN PROPN PROPN NOUN

Classification Report:

precision   recall f1-score   support

	precision	recall	f1-score	support
1	0.71	1.00	0.83	5
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.82	17
macro avg	0.93	0.67	0.63	17
weighted avg	0.88	0.82	0.75	17

Sentence: is there a red eye flight from san jose to nashville on wednesday the nineteenth of may
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ ADP NOUN
Predicted tags: AUX PRON DET NOUN ADJ NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	0.50	0.50	0.50	4
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.00	0.00	0.00	2
8	0.00	1.00	0.00	0
accuracy			0.71	17
macro avg	0.66	0.69	0.54	17
weighted avg	0.72	0.71	0.68	17

Sentence: i <unk> like to arrange for two friends to fly into los angeles next saturday evening one of the people is coming from kansas city and the other is coming from las vegas
True tags: PRON AUX VERB PART VERB ADP NUM NOUN PART VERB ADP PROPN PROPN ADJ NOUN NOUN NUM ADP DET NOUN AUX VERB ADP PROPN PROPN CCONJ DET ADJ AUX VERB ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN VERB ADP VERB VERB PROPN PROPN PROPN NOUN NOUN NUM ADP DET NOUN AUX NOUN ADP PROPN PROPN CCONJ DET ADJ AUX ADJ ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	6

	precision	recall	f1-score	support
2	0.80	0.80	0.80	5
3	0.75	0.75	0.75	4
4	0.60	0.60	0.60	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.50	0.50	0.50	2
8	1.00	1.00	1.00	3
9	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
12	1.00	0.50	0.67	2
accuracy			0.79	33
macro avg	0.85	0.79	0.80	33
weighted avg	0.80	0.79	0.78	33

Sentence: what is restriction ap <unk>
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.90	0.80	0.73	5
weighted avg	0.90	0.80	0.73	5

Sentence: what is restriction ap 80
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.90	0.80	0.73	5
weighted avg	0.90	0.80	0.73	5

Sentence: show me all flights from philadelphia to san francisco with one stop in dallas

True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN

Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NUM ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
accuracy			0.93	14
macro avg	0.93	0.93	0.90	14
weighted avg	0.96	0.93	0.93	14

Sentence: show me the flights from miami to san diego with one stop in denver

True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN

Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NUM ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
accuracy			0.93	14
macro avg	0.93	0.93	0.90	14
weighted avg	0.96	0.93	0.93	14

Sentence: do you have a flight from atlanta to charlotte north carolina next monday

True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADV PROPN ADJ NOUN

Predicted tags: VERB PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	0.33	1.00	0.50	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.89	0.74	0.69	13
weighted avg	0.87	0.77	0.73	13

Sentence: i would like to book an early morning flight from tampa florida to charlotte north carolina on april sixth
True tags: PRON AUX VERB PART VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADV PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB PART VERB ADP ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	0.75	0.67	4
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	3
4	0.67	1.00	0.80	2
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
7	1.00	0.50	0.67	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
accuracy			0.79	19
macro avg	0.90	0.72	0.70	19
weighted avg	0.84	0.79	0.75	19

Sentence: now i <unk> like flights from philadelphia to pittsburgh leaving between 430 and 530 pm
True tags: ADV PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB ADP NUM CCONJ NUM NOUN
Predicted tags: NOUN PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB ADP PROPN CCONJ PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.91	0.78	0.72	15
weighted avg	0.89	0.80	0.73	15

Sentence: from sfo to denver
True tags: ADP PROPN ADP PROPN
Predicted tags: ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: what is the lowest fare from bwi to salt lake city
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: flight numbers from minneapolis to long beach on june twenty six
True tags: NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NUM NUM
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NUM PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3

| | 1.00 | 0.50 | 0.67 | 2 |

| 9 | 1.00 | 0.50 | 0.67 | 2 |

	precision	recall	f1-score	support
accuracy			0.91	11
macro avg	0.94	0.88	0.88	11
weighted avg	0.93	0.91	0.90	11

Sentence: which is the flight number for the us air flight from philadelphia to boston is it <unk> or is it <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN AUX PRON NUM CCONJ AUX PRON NUM
Predicted tags: DET AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN AUX AUX VERB AUX
Classification Report:

	precision	recall	f1-score	support
1	0.57	1.00	0.73	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	0.67	1.00	0.80	2
6	1.00	0.00	0.00	3
8	0.50	0.67	0.57	3
9	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1

accuracy			0.67	21
macro avg	0.75	0.63	0.46	21
weighted avg	0.82	0.67	0.58	21

Sentence: how much would car rental cost in atlanta
True tags: ADV ADV AUX NOUN ADJ VERB ADP PROPN
Predicted tags: ADV VERB AUX AUX DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	0.00	0.00	0.00	1
4	0.00	0.00	0.00	1
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
11	1.00	0.50	0.67	2

accuracy			0.50	8
macro avg	0.56	0.56	0.42	8
weighted avg	0.69	0.50	0.50	8

Sentence: please list the prices for a rental car in pittsburgh
True tags: INTJ VERB DET NOUN ADP DET ADJ NOUN ADP PROPN

Predicted tags: INTJ VERB DET NOUN ADP DET NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.95	0.86	0.83	10
weighted avg	0.93	0.90	0.86	10

Sentence: what does the restriction <unk> mean
True tags: PRON AUX DET NOUN PROPN VERB
Predicted tags: PRON AUX DET NOUN AUX VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.83	6
macro avg	0.92	0.83	0.78	6
weighted avg	0.92	0.83	0.78	6

Sentence: list nonstop flights from baltimore washington to oakland that arrive between <unk> and <unk> pm
True tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP NUM CCONJ NUM NOUN
Predicted tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP PROPN CCONJ PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
accuracy			0.87	15

	precision	recall	f1-score	support
macro avg	0.93	0.83	0.79	15
weighted avg	0.92	0.87	0.82	15

Sentence: list all of the daily flights arriving in denver from 8 to 9 pm
True tags: VERB DET ADP DET ADJ NOUN VERB ADP PROPN ADP NUM ADP NUM NOUN
Predicted tags: VERB DET ADP DET ADJ NOUN VERB ADP PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
accuracy			0.86	14
macro avg	0.90	0.86	0.79	14
weighted avg	0.95	0.86	0.82	14

Sentence: get flights from milwaukee to <unk>
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what is the earliest flight from boston to bwi that serves a snack
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN DET PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	1.00	0.50	0.67	2
4	1.00	0.00	0.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.85	13
macro avg	0.94	0.81	0.79	13
weighted avg	0.92	0.85	0.82	13

Sentence: is bwi washington
True tags: VERB PROPN PROPN
Predicted tags: AUX ADJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
4	1.00	0.00	0.00	1
7	0.00	1.00	0.00	0
8	0.00	1.00	0.00	0
accuracy			0.33	3
macro avg	0.50	0.62	0.17	3
weighted avg	1.00	0.33	0.44	3

Sentence: what are the cities that american airlines serves
True tags: PRON AUX DET NOUN ADP PROPN PROPN VERB
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.95	0.86	0.83	8
weighted avg	0.92	0.88	0.82	8

Sentence: which cities are serviced by both american and delta airlines
True tags: DET NOUN AUX VERB ADP DET PROPN CCONJ PROPN PROPN
Predicted tags: DET NOUN AUX ADJ ADP PROPN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.50	0.67	2
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.80	10
macro avg	0.84	0.81	0.69	10
weighted avg	0.93	0.80	0.79	10

Sentence: show me all the us air flights to pittsburgh between 12 and 4 in the afternoon
True tags: VERB PRON DET DET PROPN PROPN NOUN ADP PROPN ADP NUM CCONJ NUM ADP DET NOUN
Predicted tags: VERB PRON DET DET PROPN PROPN NOUN ADP PROPN ADP PROPN CCONJ PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
accuracy			0.88	16
macro avg	0.95	0.88	0.84	16
weighted avg	0.93	0.88	0.83	16

Sentence: what is the cost of limousine service in philadelphia
True tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: how much does the limousine service cost within pittsburgh
True tags: ADV ADV AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: ADV VERB AUX DET NOUN NOUN NOUN VERB PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	0.00	0.00	1
3	0.67	1.00	0.80	2
4	0.00	0.00	0.00	1
5	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
accuracy			0.67	9
macro avg	0.81	0.64	0.64	9
weighted avg	0.81	0.67	0.66	9

Sentence: on november twenty third of this <unk> 1991 i <unk> like to fly from atlanta to denver and i <unk> like to fly on delta
True tags: ADP NOUN NUM PROPN ADP DET NOUN NUM PRON AUX VERB PART VERB ADP PROPN ADP PROPN CCONJ PRON AUX VERB PART VERB ADP PROPN
Predicted tags: ADP PROPN NUM ADJ ADP PROPN PROPN NOUN PRON AUX VERB PART VERB ADP PROPN ADP PROPN CCONJ PRON AUX VERB PART VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.75	0.60	4
2	1.00	1.00	1.00	5
3	0.00	0.00	0.00	2
4	1.00	1.00	1.00	4
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	2
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	2
9	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	2
accuracy			0.80	25
macro avg	0.77	0.75	0.66	25
weighted avg	0.84	0.80	0.79	25

Sentence: can you tell me the flights on october fifteenth 1991 from boston to oakland
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADJ NUM ADP PROPN ADP PROPN

Predicted tags: AUX PRON VERB PRON DET NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.92	0.78	0.72	14
weighted avg	0.91	0.86	0.80	14

Sentence: show me all united flights from denver to san francisco for september first 1991

True tags: VERB PRON DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ NUM

Predicted tags: VERB PRON DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.96	0.88	0.85	14
weighted avg	0.95	0.93	0.90	14

Sentence: information on american airline flights from washington to philadelphia early morning times of flight

True tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NOUN

Predicted tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NOUN

Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
7	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: please give me the flight times i would like to fly from boston to baltimore in the morning before 8
True tags: INTJ VERB PRON DET NOUN NOUN PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NUM
Predicted tags: INTJ VERB PRON DET NOUN NOUN PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.95	20
macro avg	0.97	0.90	0.88	20
weighted avg	0.97	0.95	0.93	20

Sentence: please list the flight times for boston to pittsburgh
True tags: INTJ VERB DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: INTJ VERB DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all flights and fares from dallas to san francisco
True tags: VERB PRON DET NOUN CCONJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN CCONJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: please list me the flights and their cost of all airlines flying from denver to baltimore
True tags: INTJ VERB PRON DET NOUN CCONJ DET NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: INTJ VERB PRON DET NOUN CCONJ ADP NOUN ADP DET NOUN ADP ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.60	1.00	0.75	3
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.88	16
macro avg	0.95	0.90	0.90	16
weighted avg	0.93	0.88	0.87	16

Sentence: give me the flights and fares on december twenty seventh from indianapolis to orlando
True tags: VERB PRON DET NOUN CCONJ NOUN ADP NOUN NUM ADJ ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN CCONJ NOUN ADP NOUN NUM NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.97	0.89	0.87	14
weighted avg	0.95	0.93	0.90	14

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: is there ground transportation from lga into new york city
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: AUX PRON NOUN NOUN ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	0.50	0.67	2
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.80	10
macro avg	0.80	0.75	0.59	10
weighted avg	0.92	0.80	0.79	10

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX

Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: how far is toronto international from downtown
True tags: ADV ADV AUX PROPN PROPN ADP NOUN
Predicted tags: ADV ADP AUX PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
accuracy			0.71	7
macro avg	0.75	0.83	0.67	7
weighted avg	0.93	0.71	0.76	7

Sentence: how far is los angeles international from downtown
True tags: ADV ADV AUX PROPN PROPN PROPN ADP NOUN
Predicted tags: ADV ADP AUX PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
accuracy			0.88	8
macro avg	0.90	0.90	0.87	8
weighted avg	0.94	0.88	0.87	8

Sentence: how long does a flight from baltimore to san francisco take
True tags: ADV ADV AUX DET NOUN ADP PROPN ADP PROPN PROPN VERB
Predicted tags: ADV PROPN AUX DET NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
accuracy			0.82	11
macro avg	0.94	0.79	0.77	11
weighted avg	0.89	0.82	0.78	11

Sentence: what airport in new york is closest to downtown
True tags: DET NOUN ADP PROPN PROPN AUX ADJ ADP NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN AUX PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.78	9
macro avg	0.81	0.71	0.54	9
weighted avg	0.93	0.78	0.73	9

Sentence: houston airports
True tags: PROPN NOUN
Predicted tags: NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.50	1.00	0.67	1
accuracy			0.50	2
macro avg	0.75	0.50	0.33	2
weighted avg	0.75	0.50	0.33	2

Sentence: give me a list of airports in baltimore
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Classification Report:

| precision | recall | f1-score | support |

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: where does delta fly to that american does not
True tags: ADV AUX PROPN VERB PART ADP PROPN AUX ADV
Predicted tags: DET AUX PROPN VERB ADP ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	0.00	1.00	0.00	0
8	1.00	0.50	0.67	2
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.56	9
macro avg	0.71	0.64	0.43	9
weighted avg	0.83	0.56	0.48	9

Sentence: which airline has the smallest plane leaving pittsburgh and arriving in baltimore on july fourth
True tags: DET NOUN VERB DET ADJ NOUN VERB PROPN CCONJ VERB ADP PROPN ADP NOUN ADJ
Predicted tags: DET NOUN PROPN DET ADJ NOUN VERB PROPN CCONJ VERB ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	2
7	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
accuracy			0.87	15
macro avg	0.93	0.88	0.88	15
weighted avg	0.93	0.87	0.87	15

Sentence: which flight from pittsburgh to baltimore carries the smallest number of passengers
True tags: DET NOUN ADP PROPN ADP PROPN VERB DET ADJ NOUN ADP NOUN
Predicted tags: DET NOUN ADP PROPN ADP PROPN PROPN DET ADJ ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
7	0.50	1.00	0.67	1
accuracy			0.83	12
macro avg	0.86	0.78	0.71	12
weighted avg	0.90	0.83	0.81	12

Sentence: what is the first flight from boston to stapleton airport for tomorrow
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: list all the flights that arrive at general mitchell international
True tags: VERB DET DET NOUN ADP VERB ADP PROPN PROPN PROPN
Predicted tags: VERB DET DET NOUN ADP VERB ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: how much does it cost to go from downtown to logan airport
True tags: ADV ADV AUX PRON VERB PART VERB ADP NOUN ADP PROPN PROPN
Predicted tags: ADV VERB AUX PROPN NOUN ADP VERB ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.67	1.00	0.80	2
3	0.50	1.00	0.67	1
4	0.50	0.50	0.50	2
6	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
12	1.00	0.00	0.00	1
accuracy			0.67	12
macro avg	0.79	0.62	0.55	12
weighted avg	0.76	0.67	0.60	12

Sentence: show me flights from all airports to love field
True tags: VERB PRON NOUN ADP DET NOUN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN ADP DET PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.94	0.92	0.91	9
weighted avg	0.93	0.89	0.88	9

Sentence: flights from cincinnati to <unk> departing after 718 am american
True tags: NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.88	0.60	0.53	10
weighted avg	0.86	0.80	0.72	10

Sentence: show me all flights to dallas that are less than 1500 dollars round trip
True tags: VERB PRON DET NOUN ADP PROPN ADP AUX ADJ ADP NUM NOUN NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP VERB VERB VERB NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	0.67	0.80	3
3	0.80	1.00	0.89	4
4	0.25	1.00	0.40	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.71	14
macro avg	0.89	0.63	0.57	14
weighted avg	0.89	0.71	0.67	14

Sentence: round trip fares from pittsburgh to philadelphia under 1000 dollars
True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	4
4	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.73	0.73	0.52	10
weighted avg	0.93	0.80	0.80	10

Sentence: round trip fares from baltimore to philadelphia under 1000 dollars
True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	4
4	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.73	0.73	0.52	10
weighted avg	0.93	0.80	0.80	10

Sentence: all flights from baltimore to philadelphia less than 1000 dollars
True tags: DET NOUN ADP PROPN ADP PROPN ADJ ADP NUM NOUN
Predicted tags: DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.92	0.67	0.61	10
weighted avg	0.90	0.80	0.73	10

Sentence: how many seats in a 100
True tags: ADV ADJ NOUN ADP DET PROPN
Predicted tags: ADV ADJ VERB ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
2	1.00	1.00	1.00	1
3	0.00	0.00	0.00	1
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.67	6
macro avg	0.71	0.71	0.57	6

weighted avg   0.83   0.67   0.67   6

Sentence: how many passengers can a boeing 737 hold
True tags: ADV ADJ NOUN AUX DET PROPN NUM VERB
Predicted tags: ADV ADJ NOUN VERB DET NOUN PROPN PROPN
Classification Report:
          precision   recall f1-score   support

       1   0.00   0.00   0.00   1
       3   0.50   1.00   0.67   1
       4   0.00   0.00   0.00   1
       5   1.00   1.00   1.00   1
       7   1.00   1.00   1.00   1
       8   1.00   0.00   0.00   1
       9   1.00   0.00   0.00   1
      11   1.00   1.00   1.00   1

    accuracy   0.50   8
   macro avg   0.69   0.50   0.46   8
weighted avg   0.69   0.50   0.46   8

Sentence: what is the seating capacity of a <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP DET PROPN
Classification Report:
          precision   recall f1-score   support

       1   1.00   1.00   1.00   1
       2   1.00   1.00   1.00   1
       3   1.00   1.00   1.00   2
       5   1.00   1.00   1.00   2
       6   1.00   1.00   1.00   1
       8   1.00   1.00   1.00   1

    accuracy   1.00   8
   macro avg   1.00   1.00   1.00   8
weighted avg   1.00   1.00   1.00   8

Sentence: what is the seating capacity for delta be1
True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN
Classification Report:
          precision   recall f1-score   support

       1   1.00   1.00   1.00   2
       2   1.00   1.00   1.00   1
       3   1.00   1.00   1.00   2
       5   1.00   1.00   1.00   1
       6   1.00   1.00   1.00   1
       8   1.00   1.00   1.00   1

	precision	recall	f1-score	support
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the flights from indianapolis to orlando with round trip fares less than <unk>
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN ADJ ADP NUM
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN ADP AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.80	1.00	0.89	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.87	0.78	0.65	15
weighted avg	0.95	0.87	0.84	15

Sentence: show me what flights are available from baltimore to dallas with economy fares
True tags: VERB PRON DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON PRON NOUN AUX ADJ ADP PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.85	13
macro avg	0.90	0.83	0.78	13
weighted avg	0.91	0.85	0.82	13

Sentence: baltimore to kansas city economy
True tags: PROPN ADP PROPN PROPN NOUN
Predicted tags: PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.92	0.67	0.62	5
weighted avg	0.85	0.80	0.71	5

Sentence: economy fares new york to miami round trip
True tags: NOUN NOUN PROPN PROPN ADP PROPN NOUN NOUN
Predicted tags: PROPN NOUN NOUN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	1
3	0.75	0.75	0.75	4
accuracy			0.75	8
macro avg	0.81	0.81	0.81	8
weighted avg	0.75	0.75	0.75	8

Sentence: find me all the round trip flights from burbank to milwaukee stopping in <unk> louis
True tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN VERB ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.96	0.92	0.92	15
weighted avg	0.95	0.93	0.93	15

Sentence: i <unk> like to find a flight from charlotte to las vegas and make a stop in <unk> louis

True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN CCONJ PROPN DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.98	0.96	0.97	19
weighted avg	0.96	0.95	0.94	19

Sentence: can you tell me which flights go from memphis to tacoma and make a stop in los angeles
True tags: AUX PRON VERB PRON DET NOUN VERB ADP PROPN ADP PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Predicted tags: AUX PRON VERB PRON DET NOUN VERB ADP PROPN ADP PROPN CCONJ PROPN DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.94	18
macro avg	0.97	0.96	0.96	18
weighted avg	0.96	0.94	0.94	18

Sentence: is there a flight between oakland and boston with a stopover in dallas fort worth on twa
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN CCONJ PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.94	17
macro avg	0.88	0.88	0.75	17
weighted avg	1.00	0.94	0.94	17

Sentence: show me all direct flights from san francisco to boston departing before noon
True tags: VERB PRON DET ADJ NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.92	0.79	0.76	13
weighted avg	0.89	0.85	0.81	13

Sentence: do you have an early morning direct flight from philadelphia to pittsburgh
True tags: AUX PRON VERB DET ADJ NOUN ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON VERB DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	0.50	0.67	2
8	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.90	0.81	0.77	12
weighted avg	0.90	0.83	0.80	12

Sentence: which united flights from boston to san francisco make connections
True tags: DET PROPN NOUN ADP PROPN ADP PROPN PROPN VERB NOUN
Predicted tags: DET PROPN NOUN ADP PROPN ADP PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.96	0.80	0.78	10
weighted avg	0.92	0.90	0.86	10

Sentence: nonstop or connecting flights from seattle to boston
True tags: NOUN CCONJ VERB NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN VERB VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
10	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.90	0.80	0.73	8
weighted avg	0.94	0.88	0.83	8

Sentence: please give me direct morning flights from pittsburgh to atlanta
True tags: INTJ VERB PRON ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.95	0.86	0.83	10
weighted avg	0.93	0.90	0.86	10

Sentence: list the flights that leave from philadelphia to atlanta early thursday morning before 8 am
True tags: VERB DET NOUN ADP VERB ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NUM NOUN
Predicted tags: VERB DET NOUN ADP VERB ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: give me the flights from boston to san francisco leaving early today
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
accuracy			0.92	12
macro avg	0.93	0.93	0.90	12
weighted avg	0.96	0.92	0.92	12

Sentence: show me the continental flights leaving chicago early saturday morning

True tags: VERB PRON DET PROPN NOUN VERB PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET NOUN NOUN VERB PROPN ADJ NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.96	0.92	0.92	10
weighted avg	0.93	0.90	0.89	10

Sentence: which flights are leaving from kansas city to atlanta early monday morning
True tags: DET NOUN AUX VERB ADP PROPN PROPN ADP PROPN ADJ NOUN NOUN
Predicted tags: DET NOUN AUX VERB ADP PROPN PROPN ADP PROPN ADJ NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like to find flights from columbus to minneapolis on monday june fourteenth early in the morning or in the evening sunday june thirteenth thank you
True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADJ ADP DET NOUN CCONJ ADP DET NOUN NOUN NOUN ADJ VERB PRON
Predicted tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN PROPN ADJ ADP DET NOUN ADJ ADP DET NOUN NOUN NOUN NOUN VERB PRON
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	0.88	1.00	0.93	7

	precision	recall	f1-score	support
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	0.50	0.33	0.40	3
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
accuracy			0.89	27
macro avg	0.90	0.83	0.81	27
weighted avg	0.89	0.89	0.86	27

Sentence: and from milwaukee to atlanta before 10 am daily
True tags: CCONJ ADP PROPN ADP PROPN ADP NUM NOUN ADJ
Predicted tags: CCONJ ADP PROPN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.78	9
macro avg	0.86	0.67	0.58	9
weighted avg	0.87	0.78	0.70	9

Sentence: list daily flights from denver to boston
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.90	0.80	0.73	7
weighted avg	0.93	0.86	0.81	7

Sentence: list flights from boston to pittsburgh daily
True tags: VERB NOUN ADP PROPN ADP PROPN ADJ
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.93	0.80	0.76	7
weighted avg	0.90	0.86	0.80	7

Sentence: show me all daily flights between milwaukee and orlando
True tags: VERB PRON DET ADJ NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.94	0.88	0.83	9
weighted avg	0.94	0.89	0.85	9

Sentence: list daily flights from boston to oakland using continental airlines
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN VERB PROPN PROPN
Predicted tags: VERB VERB NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	0.50	0.50	2
7	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.86	0.70	0.68	10
weighted avg	0.82	0.80	0.76	10

Sentence: show me the flights arriving in baltimore on june fifteenth leaving either from denver or dallas

True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ VERB CCONJ ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN PROPN VERB VERB ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
10	1.00	0.00	0.00	2
accuracy			0.81	16
macro avg	0.92	0.75	0.70	16
weighted avg	0.88	0.81	0.74	16

Sentence: list the flights from pittsburgh to baltimore arriving on july first
True tags: VERB DET NOUN ADP PROPN ADP PROPN VERB ADP NOUN ADJ
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN VERB ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights arriving on baltimore on june fourteenth
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.93	0.86	0.81	10
weighted avg	0.95	0.90	0.87	10

Sentence: show me the cheapest flight arriving in baltimore on june fourteenth starting from dallas
True tags: VERB PRON DET ADJ NOUN VERB ADP PROPN ADP NOUN ADJ VERB ADP PROPN
Predicted tags: VERB PRON DET ADJ NOUN VERB ADP PROPN ADP NOUN PROPN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.50	0.67	2
accuracy			0.86	14
macro avg	0.90	0.88	0.87	14
weighted avg	0.90	0.86	0.85	14

Sentence: how many airlines fly from new york to los angeles by way of milwaukee
True tags: ADV ADJ NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Predicted tags: ADV ADJ NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: how many flights does twa have in business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: ADV ADJ NOUN AUX PROPN VERB ADP PROPN NOUN
Classification Report:

```
        precision   recall  f1-score   support

   1      0.50      1.00      0.67       1
   2      1.00      1.00      1.00       1
   3      1.00      0.67      0.80       3
   4      1.00      1.00      1.00       1
   7      1.00      1.00      1.00       1
   8      1.00      1.00      1.00       1
  11      1.00      1.00      1.00       1

  accuracy                    0.89       9
  macro avg    0.93    0.95    0.92       9
weighted avg    0.94    0.89    0.90       9
```

Sentence: how many first class flights does delta have today
True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB NOUN
Predicted tags: ADV ADJ ADJ NOUN NOUN AUX PROPN VERB VERB
Classification Report:
```
        precision   recall  f1-score   support

   1      1.00      1.00      1.00       1
   3      1.00      0.67      0.80       3
   4      0.50      1.00      0.67       1
   7      0.50      1.00      0.67       1
   8      1.00      1.00      1.00       1
  11      1.00      0.50      0.67       2

  accuracy                    0.78       9
  macro avg    0.83    0.86    0.80       9
weighted avg    0.89    0.78    0.79       9
```

Sentence: how many flights does twa have with business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: ADV ADJ NOUN AUX PROPN VERB ADP ADP NOUN
Classification Report:
```
        precision   recall  f1-score   support

   1      1.00      1.00      1.00       1
   2      0.50      1.00      0.67       1
   3      1.00      0.67      0.80       3
   4      1.00      1.00      1.00       1
   7      1.00      1.00      1.00       1
   8      1.00      1.00      1.00       1
  11      1.00      1.00      1.00       1

  accuracy                    0.89       9
  macro avg    0.93    0.95    0.92       9
weighted avg    0.94    0.89    0.90       9
```

Sentence: how many first class flights does united have leaving from all cities today

True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB VERB ADP DET NOUN NOUN

Predicted tags: ADV ADJ ADJ NOUN NOUN AUX PROPN VERB VERB ADP DET NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
accuracy			0.92	13
macro avg	0.94	0.94	0.92	13
weighted avg	0.96	0.92	0.92	13

Sentence: what time does the tuesday morning 755 flight leaving washington arrive in san francisco

True tags: DET NOUN AUX DET NOUN NOUN NUM NOUN VERB PROPN VERB ADP PROPN PROPN

Predicted tags: PRON NOUN AUX DET NOUN NOUN NOUN NOUN VERB PROPN VERB ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	0.80	1.00	0.89	4
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.85	0.81	0.69	14
weighted avg	0.94	0.86	0.85	14

Sentence: i would like the time of your earliest flight in the morning from philadelphia to washington on american airlines

True tags: PRON AUX VERB DET NOUN ADP DET ADJ NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN

Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.89	19
macro avg	0.96	0.83	0.82	19
weighted avg	0.93	0.89	0.87	19

Sentence: when does continental fly from philadelphia to denver on sundays
True tags: ADV AUX PROPN VERB ADP PROPN ADP PROPN ADP PROPN
Predicted tags: VERB AUX PROPN VERB ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.90	0.80	0.73	10
weighted avg	0.95	0.90	0.87	10

Sentence: i would like a schedule of flights from san francisco to boston on wednesday
True tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: in pittsburgh i <unk> like to rent a car
True tags: ADP PROPN PRON AUX VERB PART VERB DET NOUN
Predicted tags: ADP PROPN PRON AUX VERB PART PROPN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.94	0.94	0.92	9
weighted avg	0.94	0.89	0.89	9

Sentence: is there limousine service available at baltimore airport
True tags: AUX PRON NOUN NOUN ADJ ADP PROPN PROPN
Predicted tags: AUX PRON NOUN NOUN ADJ ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: may i have a listing of flights from long beach california to columbus ohio on wednesday
True tags: AUX PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.80	0.89	5
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	0.50	1.00	0.67	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.89	0.83	0.77	16
weighted avg	0.92	0.88	0.86	16

Sentence: i need a ticket from nashville tennessee to seattle
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> need information please on a flight from washington dc san francisco california
True tags: PRON AUX VERB NOUN INTJ ADP DET NOUN ADP PROPN PROPN PROPN PROPN PROPN
Predicted tags: PRON AUX VERB NOUN INTJ ADP DET NOUN ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: please list any flights from oakland california to philadelphia on tuesday
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN

Predicted tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: can you tell me which flight from dallas to baltimore has the least expensive fare

True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN VERB DET ADJ ADJ NOUN

Predicted tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN DET ADJ NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	0.50	0.67	2
8	1.00	1.00	1.00	1
accuracy			0.87	15
macro avg	0.92	0.88	0.87	15
weighted avg	0.91	0.87	0.86	15

Sentence: of the flights available from dallas to baltimore on august third which airline has the least expensive flight

True tags: ADP DET NOUN ADJ ADP PROPN ADP PROPN ADP NOUN ADJ DET NOUN VERB DET ADJ ADJ NOUN

Predicted tags: ADP DET NOUN ADJ ADP PROPN ADP PROPN ADP NOUN ADJ DET NOUN PROPN DET ADJ NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	4
3	0.80	1.00	0.89	4

	precision	recall	f1-score	support
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	3
7	1.00	0.75	0.86	4
accuracy			0.89	18
macro avg	0.91	0.79	0.76	18
weighted avg	0.92	0.89	0.87	18

Sentence: what are the most expensive first class tickets between boston and san francisco

True tags: PRON AUX DET ADJ ADJ ADV NOUN NOUN ADP PROPN CCONJ PROPN PROPN

Predicted tags: PRON AUX DET NOUN NOUN ADJ NOUN ADP ADP PROPN CCONJ PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.50	1.00	0.67	1
3	0.33	0.50	0.40	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	0.00	0.00	2
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.69	13
macro avg	0.76	0.72	0.67	13
weighted avg	0.71	0.69	0.65	13

Sentence: what are the least expensive flights from denver to atlanta

True tags: PRON AUX DET ADJ ADJ NOUN ADP PROPN ADP PROPN

Predicted tags: PRON AUX DET ADJ ADJ NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what <unk> the price of the least expensive first class round trip ticket on us air from cleveland to miami
True tags: PRON AUX DET NOUN ADP DET ADJ ADJ ADV NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP DET ADJ NOUN ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	0.83	1.00	0.91	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.50	0.50	0.50	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.90	20
macro avg	0.92	0.81	0.80	20
weighted avg	0.91	0.90	0.88	20

Sentence: great now what i want to find out is on april twentieth from washington to denver do you have a flight least expensive fare around 5 <unk> in the morning
True tags: ADJ ADV PRON PRON VERB PART VERB ADV AUX ADP NOUN ADJ ADP PROPN ADP PROPN AUX PRON VERB DET NOUN ADJ ADJ NOUN ADP NUM ADV ADP DET NOUN
Predicted tags: VERB NOUN DET PRON VERB PART VERB VERB AUX ADP PROPN NOUN ADP PROPN ADP PROPN VERB PRON VERB DET NOUN NOUN NOUN NOUN ADP NOUN AUX ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	0.38	0.75	0.50	4
4	0.50	1.00	0.67	3
5	0.67	1.00	0.80	2
6	1.00	0.67	0.80	3
7	1.00	0.00	0.00	4
8	0.50	0.50	0.50	2
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	3
12	1.00	1.00	1.00	1
accuracy			0.63	30
macro avg	0.79	0.63	0.55	30
weighted avg	0.79	0.63	0.55	30

Sentence: what ground transportation is available between milwaukee airport and downtown milwaukee
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN CCONJ NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN CCONJ NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.88	0.88	0.75	11
weighted avg	1.00	0.91	0.91	11

Sentence: please list all the takeoffs and landings for general mitchell international
True tags: INTJ VERB DET DET NOUN CCONJ NOUN ADP PROPN PROPN PROPN
Predicted tags: INTJ VERB DET DET ADJ CCONJ PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.82	11
macro avg	0.84	0.88	0.73	11
weighted avg	0.93	0.82	0.78	11

Sentence: what ground transportation is available from la guardia airport into new york city
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.86	1.00	0.92	6
2	1.00	0.50	0.67	2
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.85	13
macro avg	0.84	0.79	0.66	13
weighted avg	0.93	0.85	0.84	13

Sentence: what ground transportation is available from dallas fort worth airport to downtown dallas
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: ground transportation please in the city of boston between airport and downtown
True tags: NOUN NOUN INTJ ADP DET PROPN ADP PROPN ADP NOUN CCONJ NOUN
Predicted tags: NOUN NOUN INTJ ADP DET NOUN ADP PROPN ADP PROPN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.50	0.50	2
2	1.00	1.00	1.00	3
3	0.75	0.75	0.75	4
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1

```
   accuracy                  0.83      12
  macro avg      0.88    0.88    0.88      12
weighted avg     0.83    0.83    0.83       12
```

Sentence: ground san francisco
True tags: NOUN PROPN PROPN
Predicted tags: NOUN PROPN PROPN
Classification Report:

```
          precision   recall  f1-score   support

     1       1.00     1.00     1.00       2
     3       1.00     1.00     1.00       1

  accuracy                    1.00       3
 macro avg    1.00     1.00     1.00       3
weighted avg  1.00     1.00     1.00        3
```

Sentence: tell me about ground transportation at san francisco
True tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Classification Report:

```
          precision   recall  f1-score   support

     1       1.00     1.00     1.00       2
     2       1.00     1.00     1.00       2
     3       1.00     1.00     1.00       2
     4       1.00     1.00     1.00       1
     6       1.00     1.00     1.00       1

  accuracy                    1.00       8
 macro avg    1.00     1.00     1.00       8
weighted avg  1.00     1.00     1.00        8
```

Sentence: now show me all the flights from <unk> louis to burbank
True tags: ADV VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: NOUN VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

```
          precision   recall  f1-score   support

     1       1.00     1.00     1.00       3
     2       1.00     1.00     1.00       2
     3       0.50     1.00     0.67       1
     4       1.00     1.00     1.00       1
     5       1.00     1.00     1.00       2
     6       1.00     1.00     1.00       1
    11       1.00     0.00     0.00       1

  accuracy                    0.91      11
```

	precision	recall	f1-score	support
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: saturday or sunday flights between milwaukee and phoenix american airlines
True tags: NOUN CCONJ NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: NOUN VERB NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
10	1.00	0.50	0.67	2
accuracy			0.90	10
macro avg	0.80	0.90	0.73	10
weighted avg	1.00	0.90	0.93	10

Sentence: show me all flights from denver or philadelphia or pittsburgh to baltimore
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN CCONJ PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN PROPN VERB PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	2
accuracy			0.83	12
macro avg	0.90	0.86	0.79	12
weighted avg	0.89	0.83	0.77	12

Sentence: what are the flights from cleveland to indianapolis on wednesday may twelfth on either twa delta or continental
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADP CCONJ PROPN PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADP ADP PROPN PROPN PROPN VERB PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	0.80	1.00	0.89	4
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	2
accuracy			0.83	18
macro avg	0.85	0.78	0.64	18
weighted avg	0.91	0.83	0.78	18

Sentence: list all flights that leave from baltimore or denver or pittsburgh and arrive in philadelphia
True tags: VERB DET NOUN ADP VERB ADP PROPN CCONJ PROPN CCONJ PROPN CCONJ VERB ADP PROPN
Predicted tags: VERB DET NOUN ADP VERB ADP PROPN PROPN PROPN PROPN PROPN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
10	1.00	0.33	0.50	3
accuracy			0.87	15
macro avg	0.94	0.89	0.88	15
weighted avg	0.91	0.87	0.85	15

Sentence: what does the fare code y mean
True tags: PRON AUX DET NOUN NOUN NOUN VERB
Predicted tags: PRON AUX DET NOUN NOUN NOUN VERB
Classification Report:

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what does fare code qw mean
True tags: PRON AUX NOUN NOUN PROPN VERB
Predicted tags: PRON AUX NOUN NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.83	6
macro avg	0.90	0.80	0.73	6
weighted avg	0.92	0.83	0.78	6

Sentence: what is fare code qw
True tags: PRON AUX NOUN NOUN PROPN
Predicted tags: PRON AUX NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: what does fare code <unk> mean
True tags: PRON AUX NOUN NOUN PROPN VERB
Predicted tags: PRON AUX NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what does the fare code yn mean
True tags: PRON AUX DET NOUN NOUN PROPN VERB

Predicted tags: PRON AUX DET NOUN NOUN PROPN VERB
Classification Report:
	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list all flights on united from san francisco to boston with fare code qx
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NOUN
Classification Report:
	precision	recall	f1-score	support
1	1.00	0.80	0.89	5
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.95	0.96	0.95	14
weighted avg	0.95	0.93	0.93	14

Sentence: what is the latest flight from boston to denver that serves a meal
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN DET NOUN
Classification Report:
	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.92	13
macro avg	0.96	0.88	0.85	13
weighted avg	0.95	0.92	0.89	13

Sentence: list all flights from chicago to seattle on continental which depart on saturday and serve meals

True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PRON VERB ADP NOUN CCONJ VERB NOUN

Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN DET DET ADP NOUN CCONJ VERB PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	0.67	0.80	3
4	1.00	0.67	0.80	3
5	0.33	1.00	0.50	1
6	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.81	16
macro avg	0.87	0.76	0.71	16
weighted avg	0.91	0.81	0.80	16

Sentence: could you tell me what the earliest flight that goes between atlanta and denver is which serves a meal

True tags: AUX PRON VERB PRON PRON DET ADJ NOUN ADP VERB ADP PROPN CCONJ PROPN AUX PRON VERB DET NOUN

Predicted tags: AUX PRON VERB PRON PRON DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PROPN AUX DET PROPN DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	0.33	0.50	3
5	0.67	1.00	0.80	2
6	1.00	0.75	0.86	4
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			0.84	19
macro avg	0.91	0.90	0.87	19
weighted avg	0.91	0.84	0.83	19

Sentence: give me the saturday morning flights with meals from chicago to minneapolis

True tags: VERB PRON DET NOUN NOUN NOUN ADP NOUN ADP PROPN ADP PROPN

Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.94	0.96	0.94	12
weighted avg	0.94	0.92	0.92	12

Sentence: list flights from seattle to salt lake city on delta l10

True tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN

Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all flights from san diego to phoenix on a boeing 737

True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET PROPN NUM

Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1

accuracy			0.85	13
macro avg	0.89	0.82	0.77	13
weighted avg	0.88	0.85	0.82	13

Sentence: what is a d9s
True tags: PRON AUX DET PROPN
Predicted tags: PRON AUX DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.75	4
macro avg	0.80	0.80	0.60	4
weighted avg	1.00	0.75	0.75	4

Sentence: what is the earliest flight between baltimore and oakland that serves breakfast
True tags: PRON AUX DET ADJ NOUN ADP PROPN CCONJ PROPN ADP VERB NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN CCONJ PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.96	0.89	0.87	12
weighted avg	0.94	0.92	0.88	12

Sentence: a breakfast flight from denver to san francisco please
True tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN INTJ
Predicted tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN INTJ
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list flights between boston and san francisco that serve breakfast
True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN ADP VERB NOUN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: give me all flights from boston to philadelphia next week arriving after lunch
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADJ NOUN VERB ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADJ ADJ VERB ADP VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	0.33	0.50	3
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
accuracy			0.85	13
macro avg	0.88	0.90	0.85	13
weighted avg	0.91	0.85	0.83	13

Sentence: please show me flights from pittsburgh to atlanta on wednesday morning serving breakfast

True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN VERB NOUN

Predicted tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.80	1.00	0.89	4
4	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.97	0.92	0.93	13
weighted avg	0.94	0.92	0.91	13

Sentence: what is the first flight that goes from atlanta to baltimore that serves breakfast

True tags: PRON AUX DET ADJ NOUN ADP VERB ADP PROPN ADP PROPN ADP VERB NOUN

Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN ADP PROPN NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	14
macro avg	0.94	0.88	0.83	14
weighted avg	0.93	0.86	0.81	14

Sentence: which flights arrive in <unk> louis from <unk> paul on thursday morning

True tags: DET NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN

Predicted tags: DET NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like one flight from kansas city to <unk> paul arriving around dinnertime 6 pm
True tags: PRON AUX VERB NUM NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN NUM NOUN
Predicted tags: PRON AUX VERB NUM NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
accuracy			0.94	16
macro avg	0.96	0.93	0.93	16
weighted avg	0.95	0.94	0.93	16

Sentence: list flights from dallas to houston arriving sunday afternoon
True tags: VERB NOUN ADP PROPN ADP PROPN VERB NOUN NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list nonstop flights from baltimore washington airport to oakland that depart in the afternoon
True tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP VERB ADP DET NOUN
Predicted tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP ADP ADP DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.80	1.00	0.89	4
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.96	0.90	0.91	14
weighted avg	0.94	0.93	0.92	14

Sentence: i need flight information on thursday leaving pittsburgh and arriving in baltimore in the morning
True tags: PRON VERB NOUN NOUN ADP NOUN VERB PROPN CCONJ VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN VERB PROPN CCONJ VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: morning flights out of san francisco arriving boston afternoon
True tags: NOUN NOUN ADP ADP PROPN PROPN VERB PROPN NOUN
Predicted tags: NOUN NOUN ADP ADP PROPN PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i would like to <unk> my flight in washington dc stop in denver with the destination city of san francisco
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN VERB ADP PROPN ADP DET NOUN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART AUX PROPN NOUN ADP PROPN PROPN VERB ADP PROPN ADP DET NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	0.83	0.83	6
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	0.67	0.80	3
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
12	1.00	1.00	1.00	1
accuracy			0.85	20
macro avg	0.88	0.88	0.85	20
weighted avg	0.89	0.85	0.85	20

Sentence: show me a list of flights on july twenty second leaving dc to dallas leaving dc after 6 pm
True tags: VERB PRON DET NOUN ADP NOUN ADP NOUN NUM ADJ VERB PROPN ADP PROPN VERB PROPN ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP NOUN NUM ADJ VERB VERB ADP PROPN VERB PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
accuracy			0.95	19
macro avg	0.97	0.96	0.96	19
weighted avg	0.96	0.95	0.95	19

Sentence: what airlines from washington dc to columbus
True tags: DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

      precision   recall f1-score support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.80	0.80	0.60	7
weighted avg	1.00	0.86	0.86	7

Sentence: list flights from washington dc to boston
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: could you please give me information <unk> american airlines a flight from washington dc to philadelphia the earliest one in the morning as possible
True tags: AUX PRON INTJ VERB PRON NOUN VERB PROPN PROPN DET NOUN ADP PROPN PROPN ADP PROPN DET ADJ PRON ADP DET NOUN ADP ADJ
Predicted tags: AUX PRON INTJ VERB PRON NOUN AUX PROPN PROPN DET NOUN ADP PROPN PROPN ADP PROPN DET ADJ NUM ADP DET NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	3
6	1.00	0.67	0.80	3
7	1.00	0.50	0.67	2
8	0.50	1.00	0.67	1
9	0.00	1.00	0.00	0
13	1.00	1.00	1.00	1
accuracy			0.88	24
macro avg	0.82	0.87	0.77	24
weighted avg	0.95	0.88	0.89	24

Sentence: list flights from washington dc to pittsburgh
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need a flight from washington dc to san diego
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i would like to fly from boston to baltimore please tell me what are the times of the flights
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN INTJ VERB PRON PRON AUX DET NOUN ADP DET NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN INTJ VERB PRON PRON AUX DET ADJ ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	3
7	0.00	1.00	0.00	0

	precision	recall	f1-score	support
8	1.00	1.00	1.00	2
12	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.90	0.95	0.87	19
weighted avg	1.00	0.95	0.96	19

Sentence: does flight dl <unk> dl <unk> from boston to denver stop in philadelphia
True tags: AUX NOUN PROPN NUM PROPN NUM ADP PROPN ADP PROPN VERB ADP PROPN
Predicted tags: AUX NOUN PROPN PROPN PROPN PROPN ADP PROPN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.62	1.00	0.77	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
accuracy			0.77	13
macro avg	0.94	0.67	0.63	13
weighted avg	0.86	0.77	0.68	13

Sentence: what kind of airplane is flight ua 281 from boston to denver
True tags: DET NOUN ADP NOUN AUX NOUN PROPN NUM ADP PROPN ADP PROPN
Predicted tags: PRON NOUN ADP NOUN AUX NOUN NOUN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.75	12
macro avg	0.77	0.67	0.50	12
weighted avg	0.85	0.75	0.71	12

Sentence: what is the price of american airlines flight <unk> from new york to los angeles

True tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN NUM ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.86	1.00	0.92	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.98	0.86	0.85	15
weighted avg	0.94	0.93	0.90	15

Sentence: what is the first class fare on united flight <unk> from denver to boston
True tags: PRON AUX DET ADV NOUN NOUN ADP PROPN NOUN NUM ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN NOUN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.86	0.78	0.65	14
weighted avg	0.95	0.86	0.83	14

Sentence: how much does flight ua 281 from boston to denver cost
True tags: ADV ADV AUX NOUN PROPN NUM ADP PROPN ADP PROPN VERB
Predicted tags: ADV VERB AUX NOUN NOUN PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	0.33	1.00	0.50	1
4	0.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.50	0.67	2
accuracy			0.64	11
macro avg	0.71	0.60	0.55	11
weighted avg	0.76	0.64	0.62	11

Sentence: does flight dl <unk> from philadelphia to denver fly on saturdays
True tags: AUX NOUN PROPN PROPN ADP PROPN ADP PROPN VERB ADP PROPN
Predicted tags: AUX NOUN PROPN PROPN ADP PROPN ADP PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.80	0.89	5
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.90	0.96	0.91	11
weighted avg	0.95	0.91	0.92	11

Sentence: what airline is dl <unk>
True tags: DET NOUN AUX PROPN NUM
Predicted tags: PRON NOUN AUX PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.60	5
macro avg	0.75	0.67	0.44	5
weighted avg	0.90	0.60	0.53	5

Sentence: what first class airplane goes from philadelphia to san francisco and stops in dallas in the afternoon on monday
True tags: DET ADV NOUN NOUN VERB ADP PROPN ADP PROPN PROPN CCONJ VERB ADP PROPN ADP DET NOUN ADP NOUN

Predicted tags: PRON AUX NOUN NOUN PROPN ADP PROPN ADP PROPN PROPN CCONJ PROPN ADP PROPN ADP DET NOUN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	1.00	0.00	0.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
8	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.79	19
macro avg	0.74	0.72	0.50	19
weighted avg	0.93	0.79	0.76	19

Sentence: what planes are used by twa
True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: PRON NOUN AUX NOUN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.67	6
macro avg	0.79	0.71	0.52	6
weighted avg	0.92	0.67	0.61	6

Sentence: <unk> leaving denver to san francisco before 10 am what type of aircraft is used
True tags: VERB VERB PROPN ADP PROPN PROPN ADP NUM NOUN DET NOUN ADP NOUN AUX VERB
Predicted tags: AUX VERB PROPN ADP PROPN PROPN ADP NUM NOUN PRON NOUN ADP NOUN AUX NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	0.33	0.50	3

	precision	recall	f1-score	support
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
9	1.00	1.00	1.00	1
accuracy			0.80	15
macro avg	0.78	0.79	0.63	15
weighted avg	0.92	0.80	0.78	15

Sentence: what kinds of planes are used by midway airlines
True tags: DET NOUN ADP NOUN AUX VERB ADP NOUN PROPN
Predicted tags: PRON AUX ADP NOUN AUX NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	0.50	0.33	0.40	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
accuracy			0.56	9
macro avg	0.64	0.62	0.39	9
weighted avg	0.72	0.56	0.50	9

Sentence: what type of aircraft leaves from boston to washington dc at 9 am during a weekday
True tags: DET NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP DET NOUN
Predicted tags: PRON NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN ADP NUM NOUN PROPN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.88	16
macro avg	0.82	0.90	0.77	16
weighted avg	0.95	0.88	0.90	16

Sentence: what type of aircraft are flying from cleveland to dallas before noon

True tags: DET NOUN ADP NOUN AUX VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN ADP NOUN VERB ADP ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.80	1.00	0.89	4
3	1.00	1.00	1.00	3
4	0.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
accuracy			0.75	12
macro avg	0.69	0.57	0.41	12
weighted avg	0.85	0.75	0.71	12

Sentence: what airplane types fly from pittsburgh to baltimore
True tags: DET NOUN NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN PROPN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.78	0.75	0.58	8
weighted avg	0.92	0.75	0.74	8

Sentence: what is ground transportation between the san francisco airport and the city
True tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN CCONJ DET PROPN
Predicted tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN CCONJ DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.95	0.96	0.95	12
weighted avg	0.94	0.92	0.92	12

Sentence: what flights on united leave la guardia for san jose and arrive around 10 pm
True tags: DET NOUN ADP PROPN VERB PROPN PROPN ADP PROPN PROPN CCONJ VERB ADP NUM NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN VERB ADP PROPN PROPN CCONJ VERB ADP ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	0.80	0.80	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.50	0.50	0.50	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.73	15
macro avg	0.70	0.70	0.48	15
weighted avg	0.87	0.73	0.73	15

Sentence: what ground transportation is available from the denver airport to downtown denver
True tags: DET NOUN NOUN AUX ADJ ADP DET PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP DET PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.86	0.93	0.81	12
weighted avg	1.00	0.92	0.94	12

Sentence: list us air flights leaving saturday from charlotte airport around 1 pm
True tags: VERB PROPN PROPN NOUN VERB NOUN ADP PROPN PROPN ADP NUM NOUN
Predicted tags: VERB PROPN PROPN NOUN VERB NOUN ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.96	0.80	0.78	12
weighted avg	0.93	0.92	0.88	12

Sentence: could you tell me about ground transportation arrangements from the dallas airport to downtown dallas
True tags: AUX PRON VERB PRON ADP NOUN NOUN NOUN ADP DET PROPN PROPN ADP NOUN PROPN
Predicted tags: AUX PRON VERB PRON ADP NOUN NOUN NOUN ADP DET PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: please list the flights taking off and landing on general mitchell international airport
True tags: INTJ VERB DET NOUN VERB ADV CCONJ NOUN ADP PROPN PROPN PROPN PROPN
Predicted tags: INTJ VERB DET NOUN NOUN PROPN CCONJ PROPN ADP PROPN NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	0.75	0.67	4

	precision	recall	f1-score	support
2	1.00	1.00	1.00	1
3	0.33	0.50	0.40	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.69	13
macro avg	0.87	0.72	0.72	13
weighted avg	0.77	0.69	0.68	13

Sentence: i <unk> like to fly from cleveland to indianapolis tomorrow morning as early as possible what <unk> available
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN ADP ADV ADP ADJ PRON AUX ADJ
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN ADP ADJ ADP NOUN PRON AUX ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	0.50	0.50	0.50	2
8	1.00	1.00	1.00	2
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
accuracy			0.89	18
macro avg	0.91	0.83	0.81	18
weighted avg	0.91	0.89	0.87	18

Sentence: i need a flight from logan to atlanta this afternoon
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.94	0.92	0.91	10

weighted avg   0.93   0.90   0.89   10

Sentence: give me the latest flight tomorrow on american airlines from milwaukee to tacoma
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like to fly from columbus to nashville tomorrow morning
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: and what is the last flight from denver to boston for tomorrow evening
True tags: CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:
         precision   recall f1-score   support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list evening flights tomorrow from phoenix to detroit
True tags: VERB NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the flights on continental from indianapolis to san diego in the afternoon tomorrow
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP DET NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: how many flights does northwest have leaving dulles
True tags: ADV ADJ NOUN AUX PROPN VERB VERB PROPN

Predicted tags: ADV ADJ NOUN AUX PROPN VERB VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.94	0.92	0.91	8
weighted avg	0.92	0.88	0.87	8

Sentence: nonstop flights from new york city to las vegas on sunday
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from los angeles to pittsburgh which arrive at pittsburgh on monday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN DET VERB ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.92	0.97	0.93	15
weighted avg	0.97	0.93	0.94	15

Sentence: show me all flights from philadelphia to dallas which arrive in dallas before 3 <unk> pm on saturday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN DET VERB ADP PROPN ADP NOUN PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.83	0.91	6
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.83	18
macro avg	0.88	0.73	0.66	18
weighted avg	0.89	0.83	0.79	18

Sentence: what flights leave pittsburgh and arrive in los angeles after 5 pm on thursday
True tags: DET NOUN VERB PROPN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN ADP NOUN
Predicted tags: PRON NOUN VERB PROPN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.88	0.88	0.75	14
weighted avg	1.00	0.93	0.93	14

Sentence: what is the earliest flight arriving in charlotte from <unk> louis on friday
True tags: PRON AUX DET ADJ NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what flights do you have from boston to pittsburgh on wednesday of next week after 6 pm
True tags: DET NOUN AUX PRON VERB ADP PROPN ADP PROPN ADP NOUN ADP ADJ NOUN ADP NUM NOUN
Predicted tags: PRON NOUN VERB PRON VERB ADP PROPN ADP PROPN ADP NOUN ADP ADJ NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.88	17
macro avg	0.89	0.78	0.70	17
weighted avg	0.94	0.88	0.84	17

Sentence: i <unk> like a flight from <unk> petersburg to miami on that next thursday
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP DET ADJ NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP ADP ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.97	0.94	0.94	14
weighted avg	0.95	0.93	0.92	14

Sentence: i <unk> like to travel from kansas city to chicago next wednesday
True tags: PRON AUX VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.97	0.88	0.86	12
weighted avg	0.94	0.92	0.88	12

Sentence: i would like to fly from boston to philadelphia next thursday
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: tell me about flights from atlanta to charlotte next monday
True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.94	0.83	0.80	10
weighted avg	0.93	0.90	0.86	10

Sentence: what flights go from pittsburgh to baltimore after 8 <unk> next wednesday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV ADJ NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NUM PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.85	0.78	0.64	12
weighted avg	0.94	0.83	0.80	12

Sentence: give me the fares for round trip flights from cleveland to miami next wednesday
True tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.95	0.86	0.83	14
weighted avg	0.95	0.93	0.90	14

Sentence: i want to leave chicago next tuesday and arrive in detroit around 6 pm
True tags: PRON VERB PART VERB PROPN ADJ NOUN CCONJ VERB ADP PROPN ADP NUM NOUN
Predicted tags: PRON VERB PART VERB VERB ADJ NOUN CCONJ VERB ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.75	1.00	0.86	3
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.97	0.94	0.95	14
weighted avg	0.95	0.93	0.92	14

Sentence: i want a flight from montreal to washington dc
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me the flights leaving from atlanta for washington dc on thursday morning
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me flights from denver to dc on wednesday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please give me the flights from san francisco to washington dc
True tags: INTJ VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: INTJ VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
13	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the prices of all flights from atlanta to washington dc
True tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the latest flight on wednesday going from atlanta to washington dc
True tags: PRON AUX DET ADJ NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.88	0.85	13
weighted avg	0.95	0.92	0.89	13

Sentence: list flights from toronto to washington dc saturday am
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to see the flights from atlanta to washington dc
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i <unk> sorry i want to book a flight from atlanta to denver colorado
True tags: PRON AUX ADJ PRON VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX AUX PRON VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
12	0.00	1.00	0.00	0

accuracy		0.86	14
macro avg	0.83 0.85	0.72	14
weighted avg	0.96 0.86	0.86	14

Sentence: i would like a list of round trip flights between indianapolis and orlando florida for the twenty seventh and the twenty eighth of december
True tags: PRON AUX VERB DET NOUN ADP NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN ADP DET NUM ADJ CCONJ DET NUM ADJ ADP NOUN
Predicted tags: PRON AUX VERB DET VERB ADP NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN ADP DET ADJ NOUN CCONJ DET ADJ ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.80	0.80	0.80	5
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	0.33	0.50	0.40	2
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	2
accuracy		0.83	24	
macro avg	0.86	0.83	0.79	24
weighted avg	0.88	0.83	0.81	24

Sentence: may i have a listing of flights on monday from minneapolis to long beach california please
True tags: AUX PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN INTJ
Predicted tags: VERB PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy		0.94	16	
macro avg	0.94	0.88	0.83	16
weighted avg	0.97	0.94	0.92	16

Sentence: please give all flights from dallas to oakland california monday
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: on tuesday the twenty third flights from philadelphia to san francisco on american airlines
True tags: ADP NOUN DET NUM ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN DET ADJ ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.92	0.83	0.78	14
weighted avg	0.96	0.93	0.90	14

Sentence: what is the cheapest first class fare from cleveland to miami on us air on february twenty fourth
True tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NUM ADJ
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NUM PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.67	0.80	3
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	18
macro avg	0.97	0.96	0.96	18
weighted avg	0.96	0.94	0.94	18

Sentence: cheapest round trip fare from or indianapolis to orlando on december twenty fifth
True tags: ADJ NOUN NOUN NOUN ADP CCONJ PROPN ADP PROPN ADP NOUN NUM ADJ
Predicted tags: ADJ NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NUM PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
7	1.00	0.50	0.67	2
9	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.92	0.75	0.72	13
weighted avg	0.92	0.85	0.82	13

Sentence: i would like to fly from dallas to denver on the morning of august twenty seventh leaving at <unk>
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN NUM ADJ VERB ADP NUM
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN NUM NOUN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
12	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.89	19
macro avg	0.93	0.85	0.83	19
weighted avg	0.93	0.89	0.87	19

Sentence: give me the flights from indianapolis to orlando on december twenty seventh and twenty eighth
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NUM ADJ CCONJ NUM ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NUM NOUN CCONJ CCONJ ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.50	0.67	2
9	1.00	0.50	0.67	2
10	0.50	1.00	0.67	1
accuracy			0.87	15
macro avg	0.91	0.89	0.87	15
weighted avg	0.92	0.87	0.86	15

Sentence: i would like to book a flight going from tampa to seattle on may twenty sixth i would like to stop in milwaukee on the way
True tags: PRON AUX VERB PART VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN NUM ADJ PRON AUX VERB PART VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX VERB PART VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP PROPN NUM PROPN PRON AUX VERB PART VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	5
3	0.67	0.67	0.67	3
4	1.00	0.80	0.89	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
12	1.00	1.00	1.00	2
accuracy			0.88	26

macro avg	0.93	0.85	0.83	26
weighted avg	0.92	0.88	0.87	26

Sentence: what is the cheapest one way fare from san francisco to boston on wednesday august twenty first

True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM ADJ

Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
8	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
accuracy			0.94	17
macro avg	0.96	0.94	0.93	17
weighted avg	0.96	0.94	0.94	17

Sentence: which flights are available from tacoma to san jose in the morning on april twenty second

True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP NOUN NUM ADJ

Predicted tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP NOUN NUM ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: list all round trip flights between indianapolis and orlando on the twenty seventh of december

True tags: VERB DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN ADP DET NUM ADJ ADP NOUN

Predicted tags: VERB DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN ADP DET ADJ NOUN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.80	1.00	0.89	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	0.00	0.00	0.00	1
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.87	15
macro avg	0.85	0.75	0.74	15
weighted avg	0.88	0.87	0.84	15

Sentence: what is hp
True tags: PRON AUX PROPN
Predicted tags: PRON AUX PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: define airline us
True tags: VERB NOUN PROPN
Predicted tags: VERB NOUN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: code ff
True tags: NOUN PROPN
Predicted tags: NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
accuracy			1.00	2
macro avg	1.00	1.00	1.00	2
weighted avg	1.00	1.00	1.00	2

Sentence: from las vegas to new york a nonstop twa and fare
True tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN PROPN CCONJ NOUN
Predicted tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN NOUN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.80	0.89	5
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.93	0.96	0.94	11
weighted avg	0.94	0.91	0.91	11

Sentence: airline that stands for dl
True tags: NOUN ADP VERB ADP PROPN
Predicted tags: NOUN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: list round trip flights between boston and oakland using twa
True tags: VERB NOUN NOUN NOUN ADP PROPN CCONJ PROPN VERB PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.95	0.90	0.90	10
weighted avg	0.93	0.90	0.89	10

Sentence: i <unk> like a twa flight from las vegas to new york nonstop
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Predicted tags: PRON AUX VERB DET NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.80	0.89	5
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.95	0.97	0.96	13
weighted avg	0.95	0.92	0.93	13

Sentence: what airline is <unk>
True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
accuracy			0.50	4
macro avg	0.70	0.60	0.33	4
weighted avg	0.88	0.50	0.42	4

Sentence: what airline is dl
True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN AUX PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.75	4
macro avg	0.80	0.80	0.60	4
weighted avg	1.00	0.75	0.75	4

Sentence: find a flight between denver and oakland the flight should leave in the afternoon and arrive near 5 pm the flight should also be nonstop
True tags: VERB DET NOUN ADP PROPN CCONJ PROPN DET NOUN AUX VERB ADP DET NOUN CCONJ VERB ADP NUM NOUN DET NOUN AUX ADV AUX NOUN
Predicted tags: VERB DET NOUN ADP PROPN CCONJ PROPN DET NOUN NOUN PROPN ADP DET NOUN CCONJ VERB PROPN NUM NOUN DET NOUN NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	0.67	0.80	3
3	0.60	1.00	0.75	6
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	4
8	1.00	0.00	0.00	3
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	2
11	1.00	0.00	0.00	1
accuracy			0.76	25
macro avg	0.90	0.70	0.67	25
weighted avg	0.86	0.76	0.71	25

Sentence: i need a flight on american airlines from miami to chicago that arrives around 5 pm
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	5
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.94	16
macro avg	0.95	0.86	0.83	16
weighted avg	0.96	0.94	0.91	16

Sentence: flights from kansas city to cleveland on wednesday arriving before 5 pm
True tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights depart baltimore on friday and arrive in san francisco by 8 pm
True tags: DET NOUN VERB PROPN ADP NOUN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN
Predicted tags: PRON NOUN VERB PROPN ADP NOUN CCONJ VERB ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.86	14
macro avg	0.84	0.75	0.61	14
weighted avg	0.95	0.86	0.83	14

Sentence: i <unk> like a nonstop flight from atlanta to baltimore that <unk> in around 7 pm

True tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP VERB ADP ADP NUM NOUN
Predicted tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP PROPN ADP ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.94	0.81	0.79	16
weighted avg	0.94	0.88	0.85	16

Sentence: what nonstop flights between boston and washington arrive after 5 <unk> pm
True tags: DET NOUN NOUN ADP PROPN CCONJ PROPN VERB ADP NUM ADV NOUN
Predicted tags: PRON NOUN NOUN ADP PROPN CCONJ PROPN VERB ADP NUM AUX NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.80	0.80	0.60	12
weighted avg	1.00	0.83	0.83	12

Sentence: all flights pittsburgh to baltimore on thursday arrival by 10 am
True tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NOUN
Predicted tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN ADP PROPN NOUN
Classification Report:

precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.93	0.80	0.76	11
weighted avg	0.94	0.91	0.87	11

Sentence: show me all flights direct and connecting from boston to pittsburgh that arrive in pittsburgh before 10 am
True tags: VERB PRON DET NOUN ADJ CCONJ VERB ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN NOUN CCONJ PROPN ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	5
3	0.67	1.00	0.80	2
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.83	18
macro avg	0.92	0.74	0.71	18
weighted avg	0.90	0.83	0.79	18

Sentence: cleveland to miami on wednesday arriving before 4 pm
True tags: PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Predicted tags: NOUN ADP PROPN ADP NOUN VERB ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.83	0.70	0.63	9
weighted avg	0.87	0.78	0.73	9

Sentence: show me airlines between boston and san francisco
True tags: VERB PRON NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the airlines that fly from san francisco to boston
True tags: VERB PRON DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what airlines fly from boston to denver
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7

weighted avg   1.00   0.86   0.86   7

Sentence: what airlines have flights from baltimore to seattle
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.83	0.83	0.67	8
weighted avg	1.00	0.88	0.88	8

Sentence: what airlines have flights from boston to philadelphia that leave before 630 am
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON NOUN VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.80	1.00	0.89	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.83	0.71	0.56	13
weighted avg	0.94	0.85	0.81	13

Sentence: are there any airlines that have flights from boston to philadelphia that leave before 630 am
True tags: VERB PRON DET NOUN ADP VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: AUX PRON DET PROPN ADP VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2

	precision	recall	f1-score	support
2	0.83	1.00	0.91	5
3	1.00	0.67	0.80	3
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.81	16
macro avg	0.81	0.79	0.66	16
weighted avg	0.91	0.81	0.81	16

Sentence: show me airlines that have flights between toronto and detroit between detroit and <unk> louis and between <unk> louis and toronto
True tags: VERB PRON NOUN ADP VERB NOUN ADP PROPN CCONJ PROPN ADP PROPN CCONJ PROPN PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Predicted tags: VERB PRON NOUN ADP VERB NOUN ADP PROPN CCONJ PROPN ADP PROPN CCONJ PROPN PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	8
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	4
accuracy			1.00	21
macro avg	1.00	1.00	1.00	21
weighted avg	1.00	1.00	1.00	21

Sentence: which airlines fly between boston and baltimore
True tags: DET NOUN VERB ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: does any airline have an early afternoon flight from boston to pittsburgh
True tags: AUX DET NOUN VERB DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: AUX DET NOUN VERB ADP ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.95	0.93	0.92	12
weighted avg	0.94	0.92	0.91	12

Sentence: please show me airlines with flights from philadelphia to dallas
True tags: INTJ VERB PRON NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: which airlines fly from boston to san francisco
True tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

```
      accuracy                    1.00        8
    macro avg      1.00     1.00     1.00        8
 weighted avg      1.00     1.00     1.00        8
```

Sentence: which airlines have flights between charlotte and newark
True tags: DET NOUN VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB NOUN ADP PROPN CCONJ PROPN
Classification Report:

```
            precision    recall  f1-score   support

     1       1.00      1.00      1.00         2
     2       1.00      1.00      1.00         1
     3       1.00      1.00      1.00         2
     4       1.00      1.00      1.00         1
     5       1.00      1.00      1.00         1
    10       1.00      1.00      1.00         1

   accuracy                      1.00         8
  macro avg      1.00     1.00      1.00        8
weighted avg     1.00     1.00      1.00        8
```

Sentence: show me all flights from san francisco to new york nonstop
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

```
            precision    recall  f1-score   support

     1       1.00      1.00      1.00         4
     2       1.00      1.00      1.00         2
     3       1.00      1.00      1.00         2
     4       1.00      1.00      1.00         1
     5       1.00      1.00      1.00         1
     6       1.00      1.00      1.00         1

   accuracy                      1.00        11
  macro avg      1.00     1.00      1.00       11
weighted avg     1.00     1.00      1.00       11
```

Sentence: show me nonstop flights from toronto to <unk> petersburg
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

```
            precision    recall  f1-score   support

     1       1.00      1.00      1.00         3
     2       1.00      1.00      1.00         2
     3       1.00      1.00      1.00         2
     4       1.00      1.00      1.00         1
```

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all round trip flights from miami to new york nonstop
True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: nonstop flights seattle to kansas city
True tags: NOUN NOUN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2
accuracy			0.83	6
macro avg	0.89	0.89	0.87	6
weighted avg	0.89	0.83	0.83	6

Sentence: i want to fly from atlanta to philadelphia nonstop
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1

12	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest nonstop flight from washington to san francisco
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: please list nonstop flights from las vegas to new york on america west
True tags: INTJ VERB NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: INTJ VERB NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.83	0.91	6
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.93	0.97	0.94	13
weighted avg	0.95	0.92	0.93	13

Sentence: show me first class round trip flights from new york to miami i want the cheapest first class fare please
True tags: VERB PRON ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET ADJ ADJ NOUN NOUN INTJ
Predicted tags: VERB PRON ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET ADJ ADJ NOUN NOUN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	6
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	3
13	1.00	1.00	1.00	1
accuracy			1.00	20
macro avg	1.00	1.00	1.00	20
weighted avg	1.00	1.00	1.00	20

Sentence: show me which flights from san francisco to pittsburgh on a monday are first class
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN AUX ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN NOUN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.97	0.88	0.86	15
weighted avg	0.95	0.93	0.90	15

Sentence: give me flights from baltimore to denver on united that offer first class
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: first class flights pittsburgh to newark monday morning
True tags: ADJ NOUN NOUN PROPN ADP PROPN NOUN NOUN
Predicted tags: ADJ NOUN NOUN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
7	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: first class fares from dallas to baltimore please
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN INTJ
Predicted tags: ADJ NOUN NOUN ADP PROPN ADP PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me all united airlines first class flights
True tags: VERB PRON DET PROPN PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET PROPN PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.88	8
macro avg	0.94	0.83	0.80	8
weighted avg	0.92	0.88	0.82	8

Sentence: first class price san francisco pittsburgh round trip
True tags: ADJ NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Predicted tags: ADJ NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
7	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: how much is a first class ticket from baltimore to san francisco
True tags: ADV ADV AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: ADV VERB AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
accuracy			0.92	12
macro avg	0.88	0.94	0.83	12
weighted avg	1.00	0.92	0.94	12

Sentence: first class american flight from philadelphia to dallas on wednesday
True tags: ADJ NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: ADJ NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
7	1.00	1.00	1.00	1

```
   accuracy                        1.00       10
  macro avg       1.00     1.00     1.00       10
weighted avg       1.00     1.00     1.00       10
```

Sentence: show flights first class on american airlines between dallas and philadelphia
True tags: VERB NOUN ADJ NOUN ADP PROPN PROPN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN VERB NOUN ADP PROPN PROPN ADP PROPN CCONJ PROPN
Classification Report:

```
          precision    recall  f1-score   support

      1      1.00      1.00      1.00        4
      2      1.00      1.00      1.00        2
      3      1.00      1.00      1.00        2
      4      0.50      1.00      0.67        1
      7      1.00      0.00      0.00        1
     10      1.00      1.00      1.00        1

   accuracy                        0.91       11
  macro avg       0.92     0.83     0.78       11
weighted avg       0.95     0.91     0.88       11
```

Sentence: what are the first class fares from dallas to baltimore
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

```
          precision    recall  f1-score   support

      1      1.00      1.00      1.00        2
      2      1.00      1.00      1.00        2
      3      1.00      1.00      1.00        2
      5      1.00      1.00      1.00        1
      6      1.00      1.00      1.00        1
      7      1.00      1.00      1.00        1
      8      1.00      1.00      1.00        1

   accuracy                        1.00       10
  macro avg       1.00     1.00     1.00       10
weighted avg       1.00     1.00     1.00       10
```

Sentence: show me one way flights from tampa to <unk> louis departing before 10 am first class
True tags: VERB PRON NUM NOUN NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN ADJ NOUN
Predicted tags: VERB PRON NUM NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN ADP NUM NOUN ADJ NOUN
Classification Report:

```
          precision    recall  f1-score   support
```

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
accuracy			0.94	16
macro avg	0.96	0.93	0.93	16
weighted avg	0.95	0.94	0.93	16

Sentence: what flights leave san francisco on monday night and arrive at atlanta later in the evening
True tags: DET NOUN VERB PROPN PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN ADJ ADP DET NOUN
Predicted tags: PRON NOUN VERB PROPN PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.88	16
macro avg	0.84	0.81	0.69	16
weighted avg	0.95	0.88	0.87	16

Sentence: please list all flights into denver before noon on united airlines and northwest airlines
True tags: INTJ VERB DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN CCONJ PROPN PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1

	precision	recall	f1-score	support
13	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what are the coach fares for flights from pittsburgh to denver
True tags: PRON AUX DET PROPN NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.94	0.94	0.93	11
weighted avg	0.94	0.91	0.91	11

Sentence: what are the flights on tuesday october first from atlanta to baltimore
True tags: PRON AUX DET NOUN ADP NOUN PROPN ADJ ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN PROPN ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what are the coach fares from la to charlotte monday morning
True tags: PRON AUX DET PROPN NOUN ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	2
3	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.96	0.94	0.94	11
weighted avg	0.93	0.91	0.91	11

Sentence: show me dallas ground transport
True tags: VERB PRON PROPN NOUN NOUN
Predicted tags: VERB PRON PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: show me ground transportation in denver
True tags: VERB PRON NOUN NOUN ADP PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what ground transport is available in minneapolis
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7
weighted avg	1.00	0.86	0.86	7

Sentence: please show me ground transportation in denver
True tags: INTJ VERB PRON NOUN NOUN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what kind of ground transportation is there in dallas
True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN
Predicted tags: PRON NOUN ADP NOUN NOUN AUX PRON ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.78	9
macro avg	0.79	0.71	0.52	9
weighted avg	0.94	0.78	0.74	9

Sentence: what ground transportation is available in charlotte
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN

Classification Report:
              precision   recall f1-score   support

           1   1.00   1.00   1.00   1
           2   1.00   1.00   1.00   1
           3   1.00   1.00   1.00   2
           5   1.00   0.00   0.00   1
           6   0.00   1.00   0.00   0
           7   1.00   1.00   1.00   1
           8   1.00   1.00   1.00   1

    accuracy   0.86   7
   macro avg   0.86   0.86   0.71   7
weighted avg   1.00   0.86   0.86   7

Sentence: what <unk> the ground transportation like at pittsburgh
True tags: PRON AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADJ ADP PROPN
Classification Report:
              precision   recall f1-score   support

           1   1.00   1.00   1.00   1
           2   1.00   1.00   1.00   1
           3   1.00   1.00   1.00   2
           4   1.00   0.00   0.00   1
           5   1.00   1.00   1.00   1
           6   1.00   1.00   1.00   1
           7   0.00   1.00   0.00   0
           8   1.00   1.00   1.00   1

    accuracy   0.88   8
   macro avg   0.88   0.88   0.75   8
weighted avg   1.00   0.88   0.88   8

Sentence: ground transportation in baltimore
True tags: NOUN NOUN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN
Classification Report:
              precision   recall f1-score   support

           1   1.00   1.00   1.00   1
           2   1.00   1.00   1.00   1
           3   1.00   1.00   1.00   2

    accuracy   1.00   4
   macro avg   1.00   1.00   1.00   4
weighted avg   1.00   1.00   1.00   4

Sentence: what ground transportation is there in dallas
True tags: DET NOUN NOUN AUX PRON ADP PROPN

Predicted tags: PRON NOUN NOUN AUX PRON ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.92	0.83	0.78	7
weighted avg	0.93	0.86	0.81	7

Sentence: what ground transportation is available in baltimore
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7
weighted avg	1.00	0.86	0.86	7

Sentence: ground transport phoenix
True tags: NOUN NOUN PROPN
Predicted tags: NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.67	1.00	0.80	2
accuracy			0.67	3
macro avg	0.83	0.50	0.40	3
weighted avg	0.78	0.67	0.53	3

Sentence: show me information on ground transportation for dallas
True tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like an american flight from toronto to san diego with a stopover in denver please
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN INTJ
Predicted tags: PRON AUX VERB DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: can i go from boston to san francisco with a stopover in denver
True tags: AUX PRON VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN
Predicted tags: AUX PRON VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

```
   accuracy                      1.00      13
  macro avg      1.00    1.00    1.00      13
weighted avg     1.00    1.00    1.00      13
```

Sentence: please show me flights from boston to denver with a stopover in philadelphia
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

        1      1.00      1.00      1.00        3
        2      1.00      1.00      1.00        4
        3      1.00      1.00      1.00        2
        4      1.00      1.00      1.00        1
        5      1.00      1.00      1.00        1
        6      1.00      1.00      1.00        1
       13      1.00      1.00      1.00        1

   accuracy                       1.00       13
  macro avg      1.00    1.00     1.00       13
weighted avg     1.00    1.00     1.00       13
```

Sentence: show me the flights from new york to los angeles with stop in milwaukee
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP VERB ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

        1      1.00      1.00      1.00        5
        2      1.00      1.00      1.00        4
        3      1.00      0.50      0.67        2
        4      0.50      1.00      0.67        1
        5      1.00      1.00      1.00        1
        6      1.00      1.00      1.00        1

   accuracy                       0.93       14
  macro avg      0.92    0.92     0.89       14
weighted avg     0.96    0.93     0.93       14
```

Sentence: are there any flights from denver to pittsburgh with stops in atlanta
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.86	0.86	0.71	12
weighted avg	1.00	0.92	0.92	12

Sentence: are there any flights from boston to san francisco which stop in denver
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN ADP PROPN PROPN DET VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	0.50	1.00	0.67	1
6	1.00	0.50	0.67	2
8	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.79	0.86	0.71	13
weighted avg	0.96	0.85	0.87	13

Sentence: all do you have a flight from washington to boston that stops in philadelphia
True tags: DET AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: DET DET PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.86	14
macro avg	0.92	0.79	0.76	14
weighted avg	0.90	0.86	0.82	14

Sentence: show me the flights from san diego to newark by way of houston
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.94	0.96	0.94	13
weighted avg	0.95	0.92	0.93	13

Sentence: find a flight on american airlines from boston to san francisco that makes a stopover in denver
True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN ADP VERB DET NOUN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN ADP NOUN DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	5
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
accuracy			0.94	17
macro avg	0.93	0.90	0.89	17
weighted avg	0.96	0.94	0.94	17

Sentence: i <unk> looking for a flight that goes from ontario to westchester and stops in chicago
True tags: PRON AUX VERB ADP DET NOUN ADP VERB ADP PROPN ADP PROPN CCONJ VERB ADP PROPN
Predicted tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN CCONJ PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	1
4	1.00	0.33	0.50	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.88	16
macro avg	0.95	0.92	0.91	16
weighted avg	0.93	0.88	0.86	16

Sentence: list the flights from philadelphia to san francisco via dallas
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	0.67	0.80	3
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.90	0.93	0.89	10
weighted avg	0.95	0.90	0.91	10

Sentence: are there any flights from denver to atlanta with stops in pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.86	0.86	0.71	12

weighted avg   1.00   0.92   0.92   12

Sentence: i need a flight from baltimore to seattle that stops in minneapolis
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.96	0.92	0.92	12
weighted avg	0.94	0.92	0.91	12

Sentence: i would like a flight that leaves on friday from philadelphia to dallas that makes a stop in atlanta
True tags: PRON AUX VERB DET NOUN ADP VERB ADP NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN ADP PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP VERB ADP NOUN ADP PROPN ADP PROPN ADP NOUN DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	6
3	0.75	1.00	0.86	3
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.96	0.95	0.95	19
weighted avg	0.96	0.95	0.95	19

Sentence: list flights from philadelphia to dallas that stop in atlanta
True tags: VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the available ground transportation between san francisco and downtown
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN CCONJ NOUN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what ground transportation is there from the airport in atlanta to downtown
True tags: DET NOUN NOUN VERB PRON ADP DET NOUN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN NOUN AUX PRON ADP DET PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	1.00	0.00	0.00	1
5	1.00	0.50	0.67	2
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	12
macro avg	0.71	0.75	0.55	12
weighted avg	0.92	0.75	0.76	12

Sentence: what flights go from dallas to denver leaving after 3 pm
True tags: DET NOUN VERB ADP PROPN ADP PROPN VERB ADP NUM NOUN

Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.81	0.71	0.54	11
weighted avg	0.94	0.82	0.78	11

Sentence: can you list all flights from chicago to <unk> louis that depart after 12 noon
True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP VERB ADP NUM NOUN
Predicted tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.90	0.81	0.77	15
weighted avg	0.92	0.87	0.84	15

Sentence: is there a flight between philadelphia and denver that leaves philadelphia around 2 <unk> in the afternoon
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP VERB PROPN ADP NUM ADV ADP DET NOUN
Predicted tags: AUX PRON DET NOUN ADP PROPN CCONJ PROPN ADP VERB VERB ADP NOUN AUX ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	0.67	1.00	0.80	2
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.76	17
macro avg	0.82	0.72	0.61	17
weighted avg	0.90	0.76	0.76	17

Sentence: what flights leaving pittsburgh arrive in denver and leave after say 6 <unk> at night
True tags: DET NOUN VERB PROPN VERB ADP PROPN CCONJ VERB ADP VERB NUM ADV ADP NOUN
Predicted tags: PRON NOUN VERB VERB VERB ADP PROPN CCONJ VERB ADP NOUN NOUN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	0.50	0.40	2
2	1.00	1.00	1.00	3
3	0.33	0.50	0.40	2
4	0.75	0.75	0.75	4
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.60	15
macro avg	0.71	0.53	0.39	15
weighted avg	0.76	0.60	0.57	15

Sentence: dallas to houston after <unk> am
True tags: PROPN ADP PROPN ADP NUM NOUN
Predicted tags: PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.83	6
macro avg	0.92	0.75	0.70	6
weighted avg	0.89	0.83	0.77	6

Sentence: is there a flight around 3 pm from charlotte to minneapolis
True tags: VERB PRON DET NOUN ADP NUM NOUN ADP PROPN ADP PROPN
Predicted tags: AUX PRON DET NOUN NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.67	0.80	3
3	0.50	1.00	0.67	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.73	11
macro avg	0.81	0.71	0.56	11
weighted avg	0.91	0.73	0.70	11

Sentence: i like to see the information for flights from pittsburgh to san francisco leaving pittsburgh after 12 pm
True tags: PRON VERB PART VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB PROPN ADP NUM NOUN
Predicted tags: PRON VERB PART VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	18
macro avg	1.00	1.00	1.00	18
weighted avg	1.00	1.00	1.00	18

Sentence: a listing of all flights from boston to baltimore before 10 am on thursday
True tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Predicted tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.93	0.80	0.76	14
weighted avg	0.95	0.93	0.90	14

Sentence: i <unk> like a flight from san diego to toronto on alaska airlines leaving around 1 pm
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN VERB ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.94	17
macro avg	0.98	0.88	0.86	17
weighted avg	0.95	0.94	0.91	17

Sentence: i want a flight from atlanta to washington that leaves after 3 pm
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.92	13

| | macro avg | 0.95 | 0.86 | 0.83 | 13 |
| | weighted avg | 0.95 | 0.92 | 0.89 | 13 |

Sentence: list all flights going from boston to atlanta on wednesday after 6 <unk> pm on wednesday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.94	16
macro avg	0.95	0.86	0.83	16
weighted avg	0.96	0.94	0.91	16

Sentence: i need flight information for a flight departing from cleveland to milwaukee wednesday after 6 pm
True tags: PRON VERB NOUN NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP DET NOUN NOUN ADP PROPN ADP PROPN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.83	1.00	0.91	5
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.98	0.93	0.94	16
weighted avg	0.95	0.94	0.93	16

Sentence: what flights go from boston to denver before 10 am
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.81	0.71	0.54	10
weighted avg	0.93	0.80	0.76	10

Sentence: list all flights from boston to atlanta after 6 <unk> pm on wednesday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NUM PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.95	0.86	0.83	13
weighted avg	0.95	0.92	0.89	13

Sentence: i <unk> looking for flights from pittsburgh to philadelphia leaving before 9 am
True tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Predicted tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1

```
      accuracy                    1.00      13
    macro avg     1.00    1.00    1.00      13
 weighted avg     1.00    1.00    1.00      13
```

Sentence: list all flights going from boston to atlanta before 7 am on thursday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP PROPN NOUN ADP NOUN
Classification Report:

```
            precision   recall  f1-score   support

         1     0.67     1.00      0.80        2
         2     1.00     1.00      1.00        4
         3     1.00     1.00      1.00        3
         4     1.00     1.00      1.00        2
         5     1.00     1.00      1.00        1
         9     1.00     0.00      0.00        1

    accuracy                      0.92       13
   macro avg    0.94     0.83      0.80       13
weighted avg    0.95     0.92      0.89       13
```

Sentence: i need flight information for flights departing from cleveland to milwaukee on wednesday after 5 pm
True tags: PRON VERB NOUN NOUN ADP NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NOUN NOUN
Classification Report:

```
            precision   recall  f1-score   support

         1     1.00     1.00      1.00        2
         2     1.00     1.00      1.00        5
         3     0.83     1.00      0.91        5
         4     1.00     1.00      1.00        2
         6     1.00     1.00      1.00        1
         9     1.00     0.00      0.00        1

    accuracy                      0.94       16
   macro avg    0.97     0.83      0.82       16
weighted avg    0.95     0.94      0.91       16
```

Sentence: can you find me another flight from cincinnati to new york on saturday before 6 pm
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NUM NOUN
Predicted tags: AUX PRON VERB PRON PRON NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.67	1.00	0.80	2
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.96	0.88	0.85	16
weighted avg	0.96	0.94	0.91	16

Sentence: i would like a flight from san francisco to pittsburgh on friday morning after 10 <unk>
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NUM ADV
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NUM AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.94	16
macro avg	0.94	0.89	0.85	16
weighted avg	0.97	0.94	0.92	16

Sentence: list all flights going from boston to atlanta before 5 <unk> am on thursday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM AUX NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.88	0.88	0.75	14
weighted avg	1.00	0.93	0.93	14

Sentence: what is the last flight from baltimore to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what <unk> the latest flight from san jose to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the earliest flight from pittsburgh to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	1.00	1.00	1.00	3
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show first flight from philadelphia to dallas
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.90	0.80	0.73	7
weighted avg	0.93	0.86	0.81	7

Sentence: what <unk> the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the shortest flight from milwaukee to <unk> petersburg
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: shortest evening flight from tampa to cincinnati
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.80	0.80	0.60	7
weighted avg	1.00	0.86	0.86	7

Sentence: what is the earliest flight you have leaving boston heading to philadelphia
True tags: PRON AUX DET ADJ NOUN PRON VERB VERB PROPN VERB ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN VERB VERB PROPN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	0.33	1.00	0.50	1
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	0.50	0.67	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.83	12
macro avg	0.92	0.90	0.87	12

weighted avg   0.94   0.83   0.85   12

Sentence: what is the earliest flight from boston to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: flights from denver to westchester county new york weekdays
True tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
accuracy			0.89	9
macro avg	0.94	0.83	0.86	9
weighted avg	0.91	0.89	0.88	9

Sentence: what is the last flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9

weighted avg   1.00   1.00   1.00   9

Sentence: what is the earliest flight leaving denver going to boston
True tags: PRON AUX DET ADJ NOUN VERB PROPN VERB ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN VERB PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the earliest flight from ontario to memphis
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the last flight leaving san francisco going to washington on friday
True tags: PRON AUX DET ADJ NOUN VERB PROPN PROPN VERB ADP PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN VERB PROPN PROPN VERB ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what is the earliest morning flight from san francisco to boston
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what <unk> the earliest flight from dallas to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to find the earliest flight possible from san francisco to atlanta
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADJ ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.50	0.67	2
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.94	0.94	0.93	14
weighted avg	0.96	0.93	0.93	14

Sentence: what is the latest evening flight leaving san francisco for washington
True tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the first flight from boston to atlanta and what is the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: what <unk> the cheapest one way ticket from baltimore to atlanta
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Sentence: what <unk> the cheapest round trip fare between boston and washington
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN

Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest round trip fare between boston and san francisco
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the cheapest round trip fare from atlanta to pittsburgh
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest fare from baltimore to dallas in any class
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.95	0.93	0.92	12
weighted avg	0.94	0.92	0.91	12

Sentence: what is the cheapest one way fare from boston to washington
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Sentence: i <unk> interested in the cheapest fare from washington to fort worth
True tags: PRON AUX VERB ADP DET ADJ NOUN ADP PROPN ADP PROPN PROPN

Predicted tags: PRON AUX VERB ADP DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like to book a flight from denver to pittsburgh on july fifteenth i <unk> like it to be the cheapest flight
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ PRON AUX VERB PRON PART AUX DET ADJ NOUN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN PRON AUX VERB VERB ADP VERB DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	0.75	1.00	0.86	3
4	0.60	1.00	0.75	3
5	1.00	1.00	1.00	2
6	1.00	0.67	0.80	3
7	1.00	0.50	0.67	2
8	1.00	0.67	0.80	3
12	1.00	0.50	0.67	2
accuracy			0.83	23
macro avg	0.90	0.81	0.82	23
weighted avg	0.88	0.83	0.82	23

Sentence: what is the cheapest fare from dallas to denver on delta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: can you show me the cheapest round trip flights between denver and pittsburgh
True tags: AUX PRON VERB PRON DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Predicted tags: AUX PRON VERB PRON DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what <unk> the lowest round trip fare from denver to atlanta
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.96	0.86	0.84	11

weighted avg   0.93   0.91   0.87   11

Sentence: what is the cheapest flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:
            precision   recall   f1-score   support

        1   1.00   1.00   1.00   2
        2   1.00   1.00   1.00   2
        3   1.00   1.00   1.00   1
        5   1.00   1.00   1.00   1
        6   1.00   1.00   1.00   1
        7   1.00   1.00   1.00   1
        8   1.00   1.00   1.00   1

  accuracy   1.00   9
 macro avg   1.00   1.00   1.00   9
weighted avg   1.00   1.00   1.00   9

Sentence: i <unk> like to find the cheapest fare from atlanta to dallas
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP
PROPN
Predicted tags: PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP
PROPN
Classification Report:
            precision   recall   f1-score   support

        1   1.00   1.00   1.00   2
        2   1.00   1.00   1.00   2
        3   1.00   1.00   1.00   1
        4   1.00   1.00   1.00   2
        5   1.00   1.00   1.00   1
        6   1.00   1.00   1.00   1
        7   1.00   1.00   1.00   1
        8   1.00   1.00   1.00   1
       12   1.00   1.00   1.00   1

  accuracy   1.00   12
 macro avg   1.00   1.00   1.00   12
weighted avg   1.00   1.00   1.00   12

Sentence: lowest fare from san francisco to los angeles
True tags: ADJ NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:
            precision   recall   f1-score   support

        1   1.00   1.00   1.00   4
        2   1.00   1.00   1.00   2

	precision	recall	f1-score	support
3	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.88	0.75	0.67	8
weighted avg	0.94	0.88	0.83	8

Sentence: i <unk> like the lowest fare from denver to pittsburgh
True tags: PRON AUX VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: okay i <unk> want to know the cheapest fare from atlanta to boston
True tags: INTJ PRON ADV VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.88	0.82	0.71	13
weighted avg	0.95	0.85	0.82	13

Sentence: what are the lowest one way fares from atlanta to denver
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NUM NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.96	0.88	0.85	11
weighted avg	0.94	0.91	0.87	11

Sentence: what is the cheapest one way fare from any city to another
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP DET PROPN ADP DET
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.33	0.50	3
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.75	12
macro avg	0.85	0.79	0.71	12
weighted avg	0.90	0.75	0.72	12

Sentence: i <unk> like the cheapest cost fare to fort worth from boston
True tags: PRON AUX VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the cheapest one way fares from san diego to miami
True tags: VERB PRON DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET ADJ ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.94	0.88	0.83	12
weighted avg	0.96	0.92	0.89	12

Sentence: what flights leave philadelphia for dallas and depart before noon on american airlines
True tags: DET NOUN VERB PROPN ADP PROPN CCONJ VERB ADP NOUN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB PROPN ADP PROPN CCONJ DET ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	0.00	0.00	0.00	1
6	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.85	13

	precision	recall	f1-score	support
macro avg	0.71	0.79	0.67	13
weighted avg	0.92	0.85	0.87	13

Sentence: i need a flight from cleveland to dallas that leaves before noon see if too much information
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN VERB ADP ADV ADV NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN NOUN VERB VERB VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.80	0.89	5
3	0.75	1.00	0.86	3
4	0.40	0.67	0.50	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.76	17
macro avg	0.88	0.78	0.75	17
weighted avg	0.85	0.76	0.74	17

Sentence: list all flights leaving denver on continental on sunday after 2134
True tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP NUM
Predicted tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.83	0.80	11
weighted avg	0.94	0.91	0.87	11

Sentence: all flights from san francisco to boston leaving before noon
True tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Predicted tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i need a flight from cincinnati to san jose leaving after 6 in the evening
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM ADP DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: flights from milwaukee to orlando one way
True tags: NOUN ADP PROPN ADP PROPN NUM NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i want to fly from baltimore to dallas round trip
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: hi i want a round trip ticket to dallas
True tags: INTJ PRON VERB DET NOUN NOUN NOUN ADP PROPN
Predicted tags: NOUN PRON VERB DET NOUN NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.96	0.86	0.84	9
weighted avg	0.92	0.89	0.84	9

Sentence: what would be cost of a round trip from pittsburgh to san francisco
True tags: PRON AUX AUX NOUN ADP DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX AUX NOUN ADP DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	2
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me round trip fares from toronto to detroit on delta northwest us air and united airlines

True tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP
PROPN PROPN PROPN PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP
PROPN PROPN PROPN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	8
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: give me all the flights from new york to miami round trip
True tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
NOUN NOUN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: how much is a round trip fare from nashville to seattle
True tags: ADV ADV AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: ADV VERB AUX DET NOUN NOUN NOUN ADP PROPN ADP
PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	11	1.00	0.50	0.67	2
accuracy			0.91	11	
macro avg		0.86	0.93	0.81	11
weighted avg		1.00	0.91	0.94	11

Sentence: what is the fare going from baltimore to boston one way on november seventh
True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN NUM NOUN ADP ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	0.50	0.67	0.57	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.79	14
macro avg	0.92	0.74	0.71	14
weighted avg	0.84	0.79	0.73	14

Sentence: show me the round trip flights between phoenix and salt lake city
True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the fare going from baltimore to atlanta one way on november seventh
True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN ADP ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.75	1.00	0.86	3
3	0.50	0.67	0.57	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.71	14
macro avg	0.88	0.63	0.58	14
weighted avg	0.79	0.71	0.63	14

Sentence: now i want to see return flights from miami to new york
True tags: ADV PRON VERB PART VERB NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: NOUN PRON VERB PART VERB NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.95	0.86	0.83	12
weighted avg	0.94	0.92	0.88	12

Sentence: do you have an <unk> flight from denver to san francisco
True tags: AUX PRON VERB DET NUM NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON VERB DET AUX NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.81	0.75	0.71	11
weighted avg	0.86	0.82	0.79	11

Sentence: i would like to book a flight from chicago to seattle on june fourth
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.96	0.89	0.87	14
weighted avg	0.95	0.93	0.90	14

Sentence: are there any flights from long beach to columbus on wednesday april sixth
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ
Predicted tags: AUX PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	0.00	0.00	1
8	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.84	0.75	0.61	13
weighted avg	0.94	0.85	0.81	13

Sentence: i <unk> like flights going from boston to atlanta leaving on august sixth in the afternoon
True tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN ADJ ADP DET NOUN
Predicted tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN NOUN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.97	0.88	0.86	16
weighted avg	0.95	0.94	0.91	16

Sentence: i would like to find out what flights there are on friday june eleventh from <unk> petersburg to milwaukee and then from milwaukee to tacoma thank you
True tags: PRON AUX VERB PART VERB ADV DET NOUN PRON VERB ADP NOUN NOUN ADJ ADP PROPN PROPN ADP PROPN CCONJ ADV ADP PROPN ADP PROPN VERB PRON
Predicted tags: PRON AUX VERB PART VERB VERB PRON NOUN PRON AUX ADP NOUN NOUN PROPN ADP PROPN PROPN ADP PROPN CCONJ VERB ADP PROPN ADP PROPN PROPN PRON
Classification Report:

	precision	recall	f1-score	support
1	0.71	1.00	0.83	5
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	0.50	0.50	0.50	4
5	1.00	0.00	0.00	1
6	0.75	1.00	0.86	3
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2

12	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.78	27
macro avg	0.86	0.68	0.62	27
weighted avg	0.83	0.78	0.72	27

Sentence: i need a flight from chicago to dallas on continental on june fifth
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.96	0.86	0.84	13
weighted avg	0.94	0.92	0.89	13

Sentence: i <unk> like a flight on july ninth from orlando to kansas city in the afternoon
True tags: PRON AUX VERB DET NOUN ADP NOUN ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.97	0.88	0.86	16
weighted avg	0.95	0.94	0.91	16

Sentence: i <unk> like to arrange a trip to baltimore on january first

True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP NOUN ADJ

Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP NOUN ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: okay and then from pittsburgh i <unk> like to travel to atlanta on september fourth

True tags: INTJ CCONJ ADV ADP PROPN PRON AUX VERB PART VERB ADP PROPN ADP NOUN ADJ

Predicted tags: PROPN CCONJ VERB ADP PROPN PRON AUX VERB PART VERB ADP PROPN ADP NOUN PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.92	0.73	0.68	15
weighted avg	0.89	0.80	0.73	15

Sentence: list the flights from westchester county to denver on june seventh

True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADJ

Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.83	0.80	11
weighted avg	0.94	0.91	0.87	11

Sentence: flights from atlanta august second
True tags: NOUN ADP PROPN NOUN ADJ
Predicted tags: NOUN ADP PROPN PROPN ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	0.50	0.67	2
7	1.00	1.00	1.00	1
accuracy			0.80	5
macro avg	0.88	0.88	0.83	5
weighted avg	0.90	0.80	0.80	5

Sentence: what are the flights between pittsburgh and baltimore on august tenth
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: on april first i need a flight going from phoenix to san diego

True tags: ADP NOUN ADJ PRON VERB DET NOUN VERB ADP PROPN ADP
PROPN PROPN
Predicted tags: ADP NOUN ADJ PRON VERB DET NOUN NOUN ADP PROPN ADP
PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.95	0.93	0.92	13
weighted avg	0.95	0.92	0.92	13

Sentence: show me a list of flights from denver to baltimore on united for august third
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP
PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: what are the flights from san jose to nashville on thursday the twentieth
True tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
DET ADJ
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP
NOUN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.95	0.86	0.83	13
weighted avg	0.95	0.92	0.89	13

Sentence: i need a ticket from nashville to seattle
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: how much does it cost to fly on delta from dallas to baltimore
True tags: ADV ADV AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN
Predicted tags: ADV VERB AUX PROPN NOUN ADP VERB ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	0.75	1.00	0.86	3
3	0.00	1.00	0.00	0
4	0.50	0.50	0.50	2
6	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
12	1.00	0.00	0.00	1
accuracy			0.69	13
macro avg	0.75	0.62	0.49	13
weighted avg	0.81	0.69	0.65	13

Sentence: what are the fares for flights from charlotte to newark on tuesday and wednesday

True tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP
NOUN CCONJ NOUN
Predicted tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP
NOUN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: show fares and flights from denver to oakland
True tags: VERB NOUN CCONJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN CCONJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what is the airfare between denver and pittsburgh
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8

| | macro avg | 1.00 | 1.00 | 1.00 | 8 |
| weighted avg | | 1.00 | 1.00 | 1.00 | 8 |

Sentence: what does it cost to fly from boston to oakland on united airlines
True tags: PRON AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX NOUN NOUN ADP VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.75	1.00	0.86	3
3	0.00	1.00	0.00	0
4	1.00	0.50	0.67	2
6	1.00	0.50	0.67	2
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.82	0.71	0.60	13
weighted avg	0.94	0.77	0.79	13

Sentence: get saturday fares from washington to montreal
True tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me fares from atlanta to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

```
    accuracy                     1.00      7
   macro avg      1.00    1.00    1.00      7
weighted avg      1.00    1.00    1.00      7
```

Sentence: continental airlines on saturday from chicago to seattle
True tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

```
           precision    recall  f1-score   support

       1       1.00      1.00      1.00        4
       2       1.00      1.00      1.00        3
       3       1.00      1.00      1.00        1

    accuracy                       1.00        8
   macro avg    1.00      1.00      1.00        8
weighted avg    1.00      1.00      1.00        8
```

Sentence: does eastern airlines fly between boston and washington
True tags: AUX PROPN PROPN VERB ADP PROPN CCONJ PROPN
Predicted tags: AUX PROPN PROPN VERB ADP PROPN CCONJ PROPN
Classification Report:

```
           precision    recall  f1-score   support

       1       1.00      1.00      1.00        4
       2       1.00      1.00      1.00        1
       4       1.00      1.00      1.00        1
       8       1.00      1.00      1.00        1
      10       1.00      1.00      1.00        1

    accuracy                       1.00        8
   macro avg    1.00      1.00      1.00        8
weighted avg    1.00      1.00      1.00        8
```

Sentence: i would like some information on a flight from denver to san francisco on united airlines
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB VERB NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

```
           precision    recall  f1-score   support

       1       1.00      1.00      1.00        5
       2       1.00      1.00      1.00        4
       3       1.00      1.00      1.00        2
       4       0.50      1.00      0.67        1
       5       1.00      0.50      0.67        2
       6       1.00      1.00      1.00        1
       8       1.00      1.00      1.00        1
```

	precision	recall	f1-score	support
accuracy			0.94	16
macro avg	0.93	0.93	0.90	16
weighted avg	0.97	0.94	0.94	16

Sentence: american airlines from denver to milwaukee
True tags: PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i need a flight delta airlines kansas city to salt lake
True tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: list the alaska airlines flights a departing from burbank
True tags: VERB DET PROPN PROPN NOUN DET VERB ADP PROPN
Predicted tags: VERB DET ADJ PROPN NOUN DET PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
7	0.00	1.00	0.00	0

	precision	recall	f1-score	support
accuracy			0.78	9
macro avg	0.78	0.86	0.72	9
weighted avg	0.89	0.78	0.81	9

Sentence: give me all the flights from miami to chicago on american airlines
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i <unk> like united airlines flights from denver to baltimore
True tags: PRON AUX VERB PROPN PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PROPN PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i <unk> like a flight from new york to los angeles on saturday morning on us air
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: show me the southwest airlines flights from san diego to san francisco
True tags: VERB PRON DET PROPN PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET ADJ PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.83	0.91	6
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.86	0.98	0.84	12
weighted avg	1.00	0.92	0.95	12

Sentence: what flights does american airlines have from boston to dallas
True tags: DET NOUN AUX PROPN PROPN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PROPN PROPN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: what flights go from chicago to seattle on continental airlines on saturday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.83	0.83	0.67	12
weighted avg	1.00	0.92	0.92	12

Sentence: list the flights from dallas to san francisco on american airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights go from chicago to seattle on saturday on continental airlines
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.83	0.83	0.67	12
weighted avg	1.00	0.92	0.92	12

Sentence: show me the flight classes for delta airlines
True tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: please list the flights from cincinnati to burbank on american airlines
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN
PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all the flights from indianapolis to san diego on us air
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN ADP
PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN
ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i would like to fly delta airlines from atlanta to pittsburgh
True tags: PRON AUX VERB PART VERB PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights are available wednesday afternoon from denver to san francisco
True tags: DET NOUN AUX ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN AUX ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.86	0.86	0.71	11
weighted avg	1.00	0.91	0.91	11

Sentence: show me all flights to philadelphia in the evening
True tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: flights from chicago to denver on continental on saturday morning
True tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights from san jose to dallas on friday afternoon
True tags: DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: what are the flights and prices from la to charlotte for monday morning

True tags: PRON AUX DET NOUN CCONJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN

Predicted tags: PRON AUX DET NOUN CCONJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: on friday night i would like a flight from newark to los angeles

True tags: ADP NOUN NOUN PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN

Predicted tags: ADP NOUN NOUN PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: <unk> paul to kansas city friday night

True tags: PROPN PROPN ADP PROPN PROPN NOUN NOUN

Predicted tags: AUX PROPN ADP PROPN PROPN NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
8	0.00	1.00	0.00	0

```
     accuracy                      0.86      7
    macro avg      0.75    0.94    0.71      7
 weighted avg      1.00    0.86    0.92      7
```

Sentence: show me the flights from philadelphia to baltimore in the morning
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET
NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1

```
     accuracy                      1.00     11
    macro avg      1.00    1.00    1.00     11
 weighted avg      1.00    1.00    1.00     11
```

Sentence: what flights from chicago to denver in the morning
True tags: DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0

```
     accuracy                      0.89      9
    macro avg      0.80    0.90    0.73      9
 weighted avg      1.00    0.89    0.93      9
```

Sentence: now i need a flight from detroit to san diego leaving tuesday evening
True tags: ADV PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB
NOUN NOUN
Predicted tags: NOUN PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
VERB VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	0.67	0.67	0.67	3
4	0.67	1.00	0.80	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.90	0.81	0.78	13
weighted avg	0.87	0.85	0.82	13

Sentence: how about flights from dallas to atlanta on wednesday morning
True tags: ADV ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: ADV ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
11	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the evening flights from baltimore to atlanta
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: which flights go from pittsburgh to atlanta in the evening
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: DET NOUN VERB ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: from toronto to atlanta in the afternoon
True tags: ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need to fly from pittsburgh to oakland and depart in the afternoon
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN CCONJ VERB ADP DET NOUN
Predicted tags: PRON VERB ADP VERB ADP PROPN ADP PROPN CCONJ ADP ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.60	1.00	0.75	3
3	1.00	1.00	1.00	1
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.95	0.83	0.82	13
weighted avg	0.91	0.85	0.82	13

Sentence: i need a flight from los angeles to pittsburgh on monday afternoon
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the evening flights from atlanta to boston
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i need to know what flights leave atlanta on sunday evening and arrive in baltimore
True tags: PRON VERB PART VERB DET NOUN VERB PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN
Predicted tags: PRON VERB ADP VERB PRON NOUN VERB PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	4
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.90	0.75	0.68	15
weighted avg	0.92	0.87	0.82	15

Sentence: what flights are there from boston to denver on monday morning
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.82	11
macro avg	0.79	0.71	0.52	11
weighted avg	0.95	0.82	0.79	11

Sentence: give me morning flights from atlanta to baltimore
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flights from atlanta to dallas in the afternoon
True tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: morning flights from pittsburgh to atlanta on wednesday
True tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what are the flights dallas to boston on monday morning
True tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: am flights from atlanta to philadelphia
True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: tampa to charlotte sunday morning
True tags: PROPN ADP PROPN NOUN NOUN
Predicted tags: VERB ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
accuracy			0.80	5
macro avg	0.75	0.88	0.67	5
weighted avg	1.00	0.80	0.87	5

Sentence: show flights saturday evening from <unk> louis to burbank
True tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what pm flights are available from philadelphia to pittsburgh
True tags: DET NOUN NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.86	0.86	0.71	9
weighted avg	1.00	0.89	0.89	9

Sentence: what are the flights from milwaukee to orlando on wednesday night
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from san francisco to dallas
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show flights from san francisco to denver on a thursday
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: from las vegas to phoenix
True tags: ADP PROPN PROPN ADP PROPN
Predicted tags: ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: show me all flights from san diego to los angeles
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights from kansas city to minneapolis
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list flights from las vegas to phoenix
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: flights from las vegas to montreal
True tags: NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i am also interested in a flight that <unk> from <unk> louis to las vegas
True tags: PRON AUX ADV VERB ADP DET NOUN ADP VERB ADP PROPN
PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB VERB ADP DET NOUN ADP PROPN ADP
PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	4
3	0.50	1.00	0.67	1
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.85	0.69	0.63	15
weighted avg	0.85	0.80	0.75	15

Sentence: <unk> petersburg to detroit
True tags: PROPN PROPN ADP PROPN
Predicted tags: AUX PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0

		accuracy	0.75	4
macro avg	0.67	0.89	0.60	4
weighted avg	1.00	0.75	0.85	4

Sentence: show me flights from san francisco to minneapolis
True tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights from salt lake city to las vegas
True tags: DET NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.80	0.80	0.60	9
weighted avg	1.00	0.89	0.89	9

Sentence: show me all flights from san francisco to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9

```
        macro avg      1.00      1.00      1.00        9
     weighted avg      1.00      1.00      1.00        9
```

Sentence: do you have flights from <unk> petersburg to toronto on monday
True tags: AUX PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

```
            precision   recall  f1-score   support

        1      1.00      1.00      1.00        3
        2      1.00      1.00      1.00        3
        3      1.00      1.00      1.00        2
        4      0.50      1.00      0.67        1
        6      1.00      1.00      1.00        1
        8      1.00      0.00      0.00        1

  accuracy                        0.91       11
 macro avg      0.92      0.83      0.78       11
weighted avg    0.95      0.91      0.88       11
```

Sentence: what are all the flights on delta in and out of fort worth
True tags: PRON AUX DET DET NOUN ADP PROPN ADP CCONJ ADP ADP PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADP PROPN ADP CCONJ ADP ADP PROPN PROPN
Classification Report:

```
            precision   recall  f1-score   support

        1      1.00      1.00      1.00        3
        2      1.00      1.00      1.00        4
        3      1.00      1.00      1.00        1
        5      1.00      1.00      1.00        2
        6      1.00      1.00      1.00        1
        8      1.00      1.00      1.00        1
       10      1.00      1.00      1.00        1

  accuracy                        1.00       13
 macro avg      1.00      1.00      1.00       13
weighted avg    1.00      1.00      1.00       13
```

Sentence: show flights from <unk> petersburg to charlotte
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

        1      1.00      1.00      1.00        3
        2      1.00      1.00      1.00        2
```

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i <unk> like flight information from dallas fort worth to boston on tuesday
True tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me all flights from san francisco to pittsburgh on friday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: from las vegas to montreal
True tags: ADP PROPN PROPN ADP PROPN
Predicted tags: ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: sunday flights from new york city to las vegas
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please find a flight from kansas city to newark
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i want to go from san francisco to denver
True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1

```
  accuracy                    1.00      9
 macro avg      1.00    1.00    1.00      9
weighted avg      1.00    1.00    1.00       9
```

Sentence: list all flights on continental leaving denver on monday
True tags: VERB DET NOUN ADP PROPN VERB PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN VERB PROPN ADP NOUN
Classification Report:

```
           precision   recall  f1-score   support

       1      1.00     1.00     1.00        2
       2      1.00     1.00     1.00        2
       3      1.00     1.00     1.00        2
       4      1.00     1.00     1.00        2
       5      1.00     1.00     1.00        1

  accuracy                     1.00        9
 macro avg      1.00    1.00    1.00        9
weighted avg      1.00    1.00    1.00        9
```

Sentence: only show continental flights
True tags: ADV VERB PROPN NOUN
Predicted tags: NOUN VERB PROPN NOUN
Classification Report:

```
           precision   recall  f1-score   support

       1      1.00     1.00     1.00        1
       3      0.50     1.00     0.67        1
       4      1.00     1.00     1.00        1
      11      1.00     0.00     0.00        1

  accuracy                     0.75        4
 macro avg      0.88    0.75    0.67        4
weighted avg      0.88    0.75    0.67        4
```

Sentence: find a flight on delta from philadelphia to san francisco
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

```
           precision   recall  f1-score   support

       1      1.00     1.00     1.00        4
       2      1.00     1.00     1.00        3
       3      1.00     1.00     1.00        1
       4      1.00     1.00     1.00        1
       5      1.00     1.00     1.00        1

  accuracy                     1.00       10
 macro avg      1.00    1.00    1.00       10
```

weighted avg   1.00   1.00   1.00   10

Sentence: all delta flights to <unk> if you can
True tags: DET PROPN NOUN ADP NOUN ADP PRON AUX
Predicted tags: DET PROPN NOUN ADP PROPN VERB PRON VERB
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	0.50	0.67	2
3	1.00	0.50	0.67	2
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.62	8
macro avg	0.79	0.71	0.57	8
weighted avg	0.94	0.62	0.67	8

Sentence: show me all the flights from toronto on nationair
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all the united flights from boston to denver
True tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1

```
 accuracy                   1.00      10
 macro avg      1.00    1.00    1.00      10
weighted avg      1.00    1.00    1.00      10
```

Sentence: show me all the flights on united leaving from boston
True tags: VERB PRON DET DET NOUN ADP PROPN VERB ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN VERB ADP PROPN
Classification Report:

```
         precision   recall  f1-score   support

   1      1.00     1.00     1.00        2
   2      1.00     1.00     1.00        2
   3      1.00     1.00     1.00        1
   4      1.00     1.00     1.00        2
   5      1.00     1.00     1.00        2
   6      1.00     1.00     1.00        1

 accuracy                   1.00      10
 macro avg      1.00    1.00    1.00      10
weighted avg      1.00    1.00    1.00      10
```

Sentence: when are the american flights from phoenix to milwaukee
True tags: ADV AUX DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

```
         precision   recall  f1-score   support

   1      1.00     1.00     1.00        3
   2      1.00     1.00     1.00        2
   3      1.00     1.00     1.00        1
   4      0.00     1.00     0.00        0
   5      1.00     1.00     1.00        1
   8      1.00     0.00     0.00        1
  11      1.00     0.00     0.00        1

 accuracy                   0.78       9
 macro avg      0.86    0.71    0.57       9
weighted avg      1.00    0.78    0.78       9
```

Sentence: please list all united flights between pittsburgh and baltimore
True tags: INTJ VERB DET PROPN NOUN ADP PROPN CCONJ PROPN
Predicted tags: INTJ VERB DET PROPN NOUN ADP PROPN CCONJ PROPN
Classification Report:

```
         precision   recall  f1-score   support

   1      1.00     1.00     1.00        3
   2      1.00     1.00     1.00        1
   3      1.00     1.00     1.00        1
   4      1.00     1.00     1.00        1
   5      1.00     1.00     1.00        1
```

	precision	recall	f1-score	support
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please list all flights between boston and philadelphia <unk> on sundays
True tags: INTJ VERB DET NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN CCONJ PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.96	0.93	0.93	11
weighted avg	0.93	0.91	0.90	11

Sentence: list all flights from baltimore to san francisco on friday
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me flights from philadelphia to denver on a monday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the flights from denver to atlanta on friday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: flights that go from oakland to philadelphia on friday
True tags: NOUN ADP VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN ADP VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: baltimore to philadelphia wednesday
True tags: PROPN ADP PROPN NOUN
Predicted tags: PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: i <unk> like a flight from montreal to san diego for sunday
True tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights are available friday from philadelphia to oakland
True tags: DET NOUN AUX ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX ADJ ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
accuracy			0.78	9
macro avg	0.79	0.79	0.62	9
weighted avg	0.94	0.78	0.78	9

Sentence: i would like to see the flights available from pittsburgh to san francisco for monday
True tags: PRON AUX VERB PART VERB DET NOUN ADJ ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADJ ADP PROPN ADP PROPN PROPN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: show me the flights on sunday from tampa to charlotte
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what are all flights from denver to philadelphia on saturday
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights are available from denver to philadelphia on wednesday
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: i want to go from boston to washington on a saturday
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show flights from burbank to <unk> louis on monday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	9

	precision	recall	f1-score	support
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please show me flights from dallas to atlanta on monday
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the flights from pittsburgh to los angeles on thursday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: i <unk> like a list of the flights from oakland to dallas fort worth on sunday
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	0.67	0.80	3

	precision	recall	f1-score	support
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.93	0.95	0.92	16
weighted avg	0.97	0.94	0.94	16

Sentence: show me the flights from boston to pittsburgh on wednesday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: list all flights from nashville to cleveland on sunday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me a flight from tampa to charlotte on sunday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights from denver to san francisco
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what are all the flights available between pittsburgh and dallas fort worth
True tags: PRON AUX DET DET NOUN ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights from seattle to salt lake city
True tags: DET NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: what are the flights from memphis to las vegas
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights are there from pittsburgh to los angeles
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.78	9
macro avg	0.79	0.71	0.52	9
weighted avg	0.94	0.78	0.74	9

Sentence: i <unk> looking for a flight from pittsburgh to san francisco
True tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from dallas to san francisco
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what are the flights from boston to san francisco
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights do you have leaving boston going to san francisco

True tags: DET NOUN AUX PRON VERB VERB PROPN VERB ADP PROPN PROPN

Predicted tags: PRON NOUN VERB PRON VERB VERB PROPN VERB ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	0.75	1.00	0.86	3
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.89	0.71	0.65	11
weighted avg	0.89	0.82	0.75	11

Sentence: list all flights please from washington to san francisco

True tags: VERB DET NOUN INTJ ADP PROPN ADP PROPN PROPN

Predicted tags: VERB DET NOUN INTJ ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list flights between oakland and san francisco

True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN

Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7

weighted avg	1.00	1.00	1.00	7

Sentence: interested in a flight from washington to fort worth
True tags: VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights are <unk> available between boston and dallas fort worth
True tags: DET NOUN AUX ADV ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: PRON NOUN AUX AUX ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.83	0.78	0.63	11
weighted avg	0.95	0.82	0.79	11

Sentence: what about flights from boston to san diego
True tags: PRON ADP NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.67	0.80	3
3	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.88	8
macro avg	0.88	0.92	0.87	8
weighted avg	0.94	0.88	0.88	8

Sentence: flights from baltimore to san francisco
True tags: NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i live in washington and i would like to make a trip to san francisco can you tell me which airlines connect with those two cities
True tags: PRON VERB ADP PROPN CCONJ PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN AUX PRON VERB PRON DET NOUN VERB ADP DET NUM NOUN
Predicted tags: PRON NOUN ADP PROPN CCONJ PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN PROPN PRON VERB PRON DET NOUN PROPN ADP NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	3
4	1.00	0.60	0.75	5
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	4
8	1.00	0.50	0.67	2
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.81	26
macro avg	0.91	0.78	0.76	26
weighted avg	0.90	0.81	0.80	26

Sentence: show me the flights from detroit to las vegas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights go from denver to atlanta
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.86	0.86	7

Sentence: show me the flights from montreal to philly
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flight from denver to philadelphia
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: give me the flights from baltimore to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like to fly from boston to baltimore
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: tell me the flights that leave philadelphia and go to dallas
True tags: VERB PRON DET NOUN ADP VERB PROPN CCONJ VERB ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP VERB PROPN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: flight information from oakland to denver
True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: the flight will <unk> from boston
True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: DET NOUN NOUN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.67	6
macro avg	0.83	0.67	0.56	6
weighted avg	0.83	0.67	0.56	6

Sentence: what are the flights from pittsburgh to oakland
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	1.00	1.00	1.00	2
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights are there from baltimore to newark
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: flights from columbus to milwaukee
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: i <unk> like information on boston to washington
True tags: PRON AUX VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: list flights from houston to phoenix
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: information of a flight from atlanta to pittsburgh
True tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i need to go to pittsburgh and denver
True tags: PRON VERB PART VERB ADP PROPN CCONJ PROPN
Predicted tags: PRON VERB ADP VERB PART PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.00	0.00	0.00	1
4	1.00	1.00	1.00	2

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	0.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.67	0.67	0.67	8
weighted avg	0.75	0.75	0.75	8

Sentence: what flights from philadelphia to atlanta
True tags: DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.83	6
macro avg	0.80	0.80	0.60	6
weighted avg	1.00	0.83	0.83	6

Sentence: flight from milwaukee to denver
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: tell me the flights from baltimore to dallas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i <unk> like to book a flight from atlanta to denver
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: now get me from pittsburgh to denver
True tags: ADV VERB PRON ADP PROPN ADP PROPN
Predicted tags: NOUN VERB PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.00	1.00	0.00	0
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.86	0.86	7

Sentence: what flights are there from boston to dallas
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: show me flights from pittsburgh to philadelphia
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: show flights from philadelphia to boston
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i <unk> like to see flights from pittsburgh to philadelphia
True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: give me flights from pittsburgh to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need to go from philadelphia to dallas
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB ADP VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.93	0.80	0.76	8
weighted avg	0.92	0.88	0.82	8

Sentence: show flights from pittsburgh to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what are the flights from chicago to indianapolis
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: get flights from toronto to milwaukee
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what are the different classes that an airline offers
True tags: PRON AUX DET ADJ NOUN ADP DET NOUN VERB
Predicted tags: PRON AUX DET ADJ PROPN ADP ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.00	1.00	0.00	0
2	0.50	1.00	0.67	1
3	1.00	0.50	0.67	2
4	1.00	0.00	0.00	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.67	9
macro avg	0.81	0.75	0.62	9
weighted avg	0.94	0.67	0.70	9

Sentence: show flights between boston and denver
True tags: VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: show flights from dallas to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: show me flights from baltimore to dallas
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

```
    accuracy                      1.00       7
   macro avg      1.00     1.00     1.00       7
weighted avg      1.00     1.00     1.00       7
```

Sentence: give me all the flights from memphis to charlotte
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

```
            precision    recall  f1-score   support

       1       1.00      1.00      1.00        2
       2       1.00      1.00      1.00        2
       3       1.00      1.00      1.00        1
       4       1.00      1.00      1.00        1
       5       1.00      1.00      1.00        2
       6       1.00      1.00      1.00        1

    accuracy                      1.00        9
   macro avg      1.00     1.00     1.00        9
weighted avg      1.00     1.00     1.00        9
```

Sentence: i would like to see the flights from baltimore to philadelphia please
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
INTJ
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP
PROPN INTJ
Classification Report:

```
            precision    recall  f1-score   support

       1       1.00      1.00      1.00        2
       2       1.00      1.00      1.00        2
       3       1.00      1.00      1.00        1
       4       1.00      1.00      1.00        2
       5       1.00      1.00      1.00        1
       6       1.00      1.00      1.00        1
       8       1.00      1.00      1.00        1
      12       1.00      1.00      1.00        1
      13       1.00      1.00      1.00        1

    accuracy                      1.00       12
   macro avg      1.00     1.00     1.00       12
weighted avg      1.00     1.00     1.00       12
```

Sentence: what flights are there from indianapolis to orlando
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

```
            precision    recall  f1-score   support

       1       1.00      1.00      1.00        2
```

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: no i want to go from denver to oakland
True tags: DET PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: NOUN PRON VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.00	1.00	0.00	0
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.86	0.86	0.71	9
weighted avg	1.00	0.89	0.89	9

Sentence: show me flights from milwaukee to orlando
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me a list of flights between denver and oakland
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all the flights from charlotte to cleveland
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me flights from denver to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: tell me about flights from indianapolis to houston
True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: oakland to philadelphia
True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: what are your flights from denver to baltimore
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.94	0.83	0.80	8
weighted avg	0.92	0.88	0.82	8

Sentence: list all flights from baltimore to philadelphia
True tags: VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what flights are available from boston to dallas
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.86	0.86	0.71	8
weighted avg	1.00	0.88	0.88	8

Sentence: i would like to see all flights from denver to philadelphia
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: atlanta to pittsburgh
True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: give me a flight from baltimore to newark that arrives as early as possible
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP ADV ADP ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.81	0.75	0.71	14
weighted avg	0.89	0.86	0.83	14

Sentence: what flights are there between atlanta and denver
True tags: DET NOUN VERB PRON ADP PROPN CCONJ PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.75	8
macro avg	0.81	0.75	0.58	8
weighted avg	0.94	0.75	0.71	8

Sentence: i need a flight from phoenix to atlanta

True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i want to fly from atlanta to philadelphia
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: also give me a list of flights between oakland and boston
True tags: ADV VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11

weighted avg	0.95	0.91	0.88	11

Average Loss: 0.3354
Average Accuracy: 90.96 %
Sentence: what are the coach flights between dallas and baltimore leaving august tenth and returning august <unk>
True tags: PRON AUX DET NOUN NOUN ADP PROPN CCONJ PROPN VERB NOUN ADJ CCONJ VERB NOUN NUM
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN PROPN VERB VERB NOUN NOUN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	0.50	1.00	0.67	1
3	0.60	0.75	0.67	4
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	2
accuracy			0.62	16
macro avg	0.81	0.62	0.55	16
weighted avg	0.74	0.62	0.54	16

Sentence: i want a flight from nashville to seattle that arrives no later than 3 pm
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB DET ADJ ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.75	0.86	4
3	0.29	1.00	0.44	2
4	1.00	0.50	0.67	2
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.67	15
macro avg	0.91	0.59	0.58	15
weighted avg	0.90	0.67	0.67	15

Sentence: i need a flight leaving kansas city to chicago leaving next wednesday and returning the following day
True tags: PRON VERB DET NOUN VERB PROPN PROPN ADP PROPN VERB ADJ NOUN CCONJ VERB DET VERB NOUN
Predicted tags: PRON VERB DET NOUN NOUN VERB PROPN ADP PROPN VERB VERB NOUN NOUN ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	0.50	1.00	0.67	1
3	0.50	1.00	0.67	3
4	0.50	0.40	0.44	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.65	17
macro avg	0.81	0.63	0.57	17
weighted avg	0.74	0.65	0.61	17

Sentence: explain meal codes <unk> <unk>
True tags: VERB NOUN NOUN PROPN PROPN
Predicted tags: VERB VERB NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
4	0.50	1.00	0.67	1
accuracy			0.80	5
macro avg	0.83	0.83	0.78	5
weighted avg	0.90	0.80	0.80	5

Sentence: show me all flights from atlanta to san francisco which leave the day after tomorrow after 5 <unk> pm
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB DET NOUN ADP NOUN ADP NUM ADV NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB VERB DET NOUN ADP PROPN ADP NOUN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	4
3	0.75	0.75	0.75	4
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	2

	precision	recall	f1-score	support
6	1.00	0.50	0.67	2
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.79	19
macro avg	0.88	0.66	0.62	19
weighted avg	0.85	0.79	0.75	19

Sentence: i need a flight from toronto to montreal reaching montreal early on friday
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN VERB PROPN ADJ ADP NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN NOUN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	0.75	1.00	0.86	3
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.87	0.74	0.71	13
weighted avg	0.81	0.77	0.73	13

Sentence: are there any flights from new york to montreal canada leaving on thursday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN
Predicted tags: AUX PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.83	0.86	0.70	13
weighted avg	0.94	0.85	0.81	13

Sentence: show me ground transportation in philadelphia on monday morning

True tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: find a flight from toronto to san diego with a layover in dc on delta airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what is restriction ap80
True tags: PRON AUX NOUN PROPN
Predicted tags: PRON AUX NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.75	4
macro avg	0.88	0.75	0.67	4
weighted avg	0.88	0.75	0.67	4

Sentence: list the arizona airport
True tags: VERB DET PROPN PROPN

Predicted tags: VERB DET DET PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	0.50	1.00	0.67	1
accuracy			0.75	4
macro avg	0.83	0.83	0.78	4
weighted avg	0.88	0.75	0.75	4

Sentence: what are the nonstop flights on america west or southwest air from kansas city to burbank on saturday may twenty two
True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN CCONJ PROPN PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM NUM
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN NOUN VERB VERB ADP PROPN PROPN ADP PROPN ADP NOUN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.71	0.71	0.71	7
2	1.00	1.00	1.00	4
3	0.60	0.75	0.67	4
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1
accuracy			0.71	21
macro avg	0.81	0.72	0.60	21
weighted avg	0.83	0.71	0.70	21

Sentence: what times does the late afternoon flight leave from washington for denver
True tags: DET NOUN AUX DET ADJ NOUN NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN PROPN DET NOUN NOUN NOUN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	2
3	0.75	1.00	0.86	3
4	1.00	0.00	0.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1

| | 1.00 | 0.00 | 0.00 | 1 |
| 8 | | | | |

	precision	recall	f1-score	support
accuracy			0.67	12
macro avg	0.78	0.56	0.40	12
weighted avg	0.85	0.67	0.60	12

Sentence: what does the meal code s stand for
True tags: PRON AUX DET NOUN NOUN PROPN VERB ADP
Predicted tags: PRON AUX DET NOUN PROPN PROPN VERB ADP
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.93	0.93	0.90	8
weighted avg	0.94	0.88	0.88	8

Sentence: is there ground transportation from the memphis airport into town when if i arrive at <unk> in the morning
True tags: VERB PRON NOUN NOUN ADP DET PROPN PROPN ADP PROPN ADV ADP PRON VERB ADP NUM ADP DET NOUN
Predicted tags: AUX PRON NOUN NOUN ADP DET NOUN PROPN PROPN PROPN PROPN NOUN PRON VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.40	0.67	0.50	3
2	1.00	0.60	0.75	5
3	0.60	1.00	0.75	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.68	19
macro avg	0.78	0.64	0.52	19
weighted avg	0.84	0.68	0.68	19

Sentence: what flights between dfw and oakland arrive in oakland between <unk> am and <unk> pm

True tags: DET NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN ADP NUM NOUN CCONJ NUM NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN VERB ADP PROPN ADP PROPN NOUN CCONJ VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	2
10	1.00	0.50	0.67	2
accuracy			0.73	15
macro avg	0.76	0.69	0.51	15
weighted avg	0.89	0.73	0.68	15

Sentence: what are the flights on mondays that travel from charlotte north carolina to phoenix arizona
True tags: PRON AUX DET NOUN ADP PROPN ADP VERB ADP PROPN ADV PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	1.00	1.00	4
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.92	0.75	0.70	15
weighted avg	0.91	0.87	0.81	15

Sentence: what kind of ground transportation is there in washington dc
True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN PROPN
Predicted tags: PRON AUX ADP NOUN NOUN PROPN DET ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	0.67	0.80	3
4	1.00	0.00	0.00	1
5	0.00	0.00	0.00	1
6	0.00	0.00	0.00	1
8	0.00	1.00	0.00	0
accuracy			0.60	10
macro avg	0.52	0.52	0.37	10
weighted avg	0.73	0.60	0.60	10

Sentence: in economy class from dallas to baltimore arriving july seventh i <unk> like to know what <unk> the cheapest ticket possible
True tags: ADP NOUN NOUN ADP PROPN ADP PROPN VERB NOUN ADJ PRON AUX VERB PART VERB PRON AUX DET ADJ NOUN ADJ
Predicted tags: ADP PROPN NOUN ADP PROPN ADP PROPN PROPN VERB NOUN PRON AUX VERB ADP VERB DET AUX DET NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	2
2	0.75	1.00	0.86	3
3	0.33	0.25	0.29	4
4	0.67	0.67	0.67	3
5	0.50	1.00	0.67	1
6	1.00	0.50	0.67	2
7	1.00	0.00	0.00	3
8	1.00	1.00	1.00	2
12	1.00	0.00	0.00	1
accuracy			0.57	21
macro avg	0.73	0.60	0.52	21
weighted avg	0.70	0.57	0.51	21

Sentence: show flights from baltimore to san francisco between 6 pm and 8 pm on friday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN CCONJ NUM NOUN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP PROPN NOUN NOUN NOUN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	4
4	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1
accuracy			0.80	15

	precision	recall	f1-score	support
macro avg	0.90	0.67	0.61	15
weighted avg	0.86	0.80	0.72	15

Sentence: what meals are available on dl <unk> which <unk> arrives in san francisco at <unk> am
True tags: DET NOUN AUX ADJ ADP PROPN NUM DET PROPN VERB ADP PROPN PROPN ADP NUM NOUN
Predicted tags: PRON NOUN AUX AUX ADP PROPN PROPN DET VERB PROPN ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.75	0.60	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.00	0.00	0.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
9	1.00	0.00	0.00	2
accuracy			0.62	16
macro avg	0.67	0.58	0.44	16
weighted avg	0.78	0.62	0.59	16

Sentence: i want to fly from kansas city to chicago next wednesday arriving in the evening and returning the next day
True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN VERB ADP DET NOUN CCONJ VERB DET ADJ NOUN
Predicted tags: PRON VERB ADP VERB ADP PROPN PROPN ADP PROPN PROPN NOUN NOUN ADP DET NOUN NOUN ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	0.60	1.00	0.75	3
3	0.50	1.00	0.67	3
4	1.00	0.50	0.67	4
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.70	20
macro avg	0.87	0.61	0.55	20
weighted avg	0.83	0.70	0.62	20

Sentence: please book for me a flight on twa from washington dc to san francisco earliest possible time
True tags: INTJ VERB ADP PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN ADV ADJ NOUN
Predicted tags: VERB VERB ADP PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.71	1.00	0.83	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.82	17
macro avg	0.91	0.67	0.61	17
weighted avg	0.89	0.82	0.75	17

Sentence: is there a red eye flight from san jose to nashville on wednesday the nineteenth of may
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ ADP NOUN
Predicted tags: AUX PRON DET DET ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	0.80	1.00	0.89	4
3	0.67	0.50	0.57	4
4	1.00	0.00	0.00	1
5	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
8	0.00	1.00	0.00	0
accuracy			0.71	17
macro avg	0.74	0.69	0.51	17
weighted avg	0.79	0.71	0.65	17

Sentence: i <unk> like to arrange for two friends to fly into los angeles next saturday evening one of the people is coming from kansas city and the other is coming from las vegas

True tags: PRON AUX VERB PART VERB ADP NUM NOUN PART VERB ADP
PROPN PROPN ADJ NOUN NOUN NUM ADP DET NOUN AUX VERB ADP
PROPN PROPN CCONJ DET ADJ AUX VERB ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP VERB ADP NOUN NOUN ADP PROPN ADP
PROPN PROPN PROPN NOUN NOUN NOUN ADP DET NOUN PROPN PROPN
ADP PROPN PROPN PROPN DET NOUN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.46	1.00	0.63	6
2	0.71	1.00	0.83	5
3	0.57	1.00	0.73	4
4	1.00	0.40	0.57	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
8	1.00	0.33	0.50	3
9	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	2
accuracy			0.64	33
macro avg	0.89	0.52	0.48	33
weighted avg	0.81	0.64	0.55	33

Sentence: what is restriction ap <unk>
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.90	0.80	0.73	5
weighted avg	0.90	0.80	0.73	5

Sentence: what is restriction ap 80
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.90	0.80	0.73	5
weighted avg	0.90	0.80	0.73	5

Sentence: show me all flights from philadelphia to san francisco with one stop in dallas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.97	0.86	0.84	14
weighted avg	0.94	0.93	0.90	14

Sentence: show me the flights from miami to san diego with one stop in denver
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.97	0.86	0.84	14
weighted avg	0.94	0.93	0.90	14

Sentence: do you have a flight from atlanta to charlotte north carolina next monday

True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADV PROPN ADJ NOUN

Predicted tags: VERB PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN PROPN NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.88	0.67	0.59	13
weighted avg	0.85	0.77	0.68	13

Sentence: i would like to book an early morning flight from tampa florida to charlotte north carolina on april sixth

True tags: PRON AUX VERB PART VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADV PROPN ADP NOUN ADJ

Predicted tags: PRON AUX VERB ADP VERB DET NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.60	1.00	0.75	3
3	0.60	1.00	0.75	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.79	19
macro avg	0.92	0.70	0.65	19
weighted avg	0.87	0.79	0.71	19

Sentence: now i <unk> like flights from philadelphia to pittsburgh leaving between 430 and 530 pm

True tags: ADV PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB ADP NUM CCONJ NUM NOUN

Predicted tags: NOUN PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB
ADP PROPN CCONJ PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.91	0.78	0.72	15
weighted avg	0.89	0.80	0.73	15

Sentence: from sfo to denver
True tags: ADP PROPN ADP PROPN
Predicted tags: ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: what is the lowest fare from bwi to salt lake city
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADP PROPN ADP PROPN PROPN
PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: flight numbers from minneapolis to long beach on june twenty six
True tags: NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NUM NUM
Predicted tags: NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.50	0.67	0.57	3
4	0.00	1.00	0.00	0
9	1.00	0.00	0.00	2
accuracy			0.73	11
macro avg	0.70	0.73	0.51	11
weighted avg	0.86	0.73	0.70	11

Sentence: which is the flight number for the us air flight from philadelphia to boston is it <unk> or is it <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN AUX PRON NUM CCONJ AUX PRON NUM
Predicted tags: DET AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN NOUN AUX AUX PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	4
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
5	0.67	1.00	0.80	2
6	1.00	0.00	0.00	3
8	0.67	0.67	0.67	3
9	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1
accuracy			0.67	21
macro avg	0.82	0.58	0.50	21
weighted avg	0.79	0.67	0.56	21

Sentence: how much would car rental cost in atlanta
True tags: ADV ADV AUX NOUN ADJ VERB ADP PROPN
Predicted tags: VERB VERB VERB NOUN NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	0.33	1.00	0.50	1
4	0.00	0.00	0.00	1

	precision	recall	f1-score	support
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.38	8
macro avg	0.76	0.43	0.36	8
weighted avg	0.79	0.38	0.31	8

Sentence: please list the prices for a rental car in pittsburgh
True tags: INTJ VERB DET NOUN ADP DET ADJ NOUN ADP PROPN
Predicted tags: VERB VERB DET NOUN ADP DET NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.88	0.71	0.64	10
weighted avg	0.88	0.80	0.73	10

Sentence: what does the restriction <unk> mean
True tags: PRON AUX DET NOUN PROPN VERB
Predicted tags: PRON AUX DET NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.83	6
macro avg	0.92	0.83	0.78	6
weighted avg	0.92	0.83	0.78	6

Sentence: list nonstop flights from baltimore washington to oakland that arrive between <unk> and <unk> pm
True tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP NUM CCONJ NUM NOUN
Predicted tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP PROPN CCONJ PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
accuracy			0.87	15
macro avg	0.93	0.83	0.79	15
weighted avg	0.92	0.87	0.82	15

Sentence: list all of the daily flights arriving in denver from 8 to 9 pm
True tags: VERB DET ADP DET ADJ NOUN VERB ADP PROPN ADP NUM ADP NUM NOUN
Predicted tags: VERB DET ADP DET NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	1.00	1.00	4
3	0.50	1.00	0.67	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	2
accuracy			0.71	14
macro avg	0.83	0.64	0.55	14
weighted avg	0.88	0.71	0.65	14

Sentence: get flights from milwaukee to <unk>
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
accuracy			0.83	6
macro avg	0.88	0.75	0.67	6
weighted avg	0.92	0.83	0.78	6

Sentence: what is the earliest flight from boston to bwi that serves a snack

True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.88	0.85	13
weighted avg	0.95	0.92	0.89	13

Sentence: is bwi washington
True tags: VERB PROPN PROPN
Predicted tags: AUX VERB PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
4	0.00	0.00	0.00	1
8	0.00	1.00	0.00	0
accuracy			0.33	3
macro avg	0.33	0.50	0.22	3
weighted avg	0.67	0.33	0.44	3

Sentence: what are the cities that american airlines serves
True tags: PRON AUX DET NOUN ADP PROPN PROPN VERB
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.95	0.86	0.83	8

weighted avg   0.92   0.88   0.82   8

Sentence: which cities are serviced by both american and delta airlines
True tags: DET NOUN AUX VERB ADP DET PROPN CCONJ PROPN PROPN
Predicted tags: DET NOUN VERB NOUN ADP PROPN PROPN PROPN PROPN
PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	0.00	0.00	0.00	1
5	1.00	0.50	0.67	2
8	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.60	10
macro avg	0.73	0.50	0.44	10
weighted avg	0.73	0.60	0.52	10

Sentence: show me all the us air flights to pittsburgh between 12 and 4 in the
afternoon
True tags: VERB PRON DET DET PROPN PROPN NOUN ADP PROPN ADP NUM
CCONJ NUM ADP DET NOUN
Predicted tags: VERB PRON DET DET NOUN PROPN NOUN ADP PROPN ADP
PROPN CCONJ CCONJ ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	0.50	1.00	0.67	1
accuracy			0.81	16
macro avg	0.85	0.83	0.77	16
weighted avg	0.86	0.81	0.77	16

Sentence: what is the cost of limousine service in philadelphia
True tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: how much does the limousine service cost within pittsburgh
True tags: ADV ADV AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: VERB VERB VERB DET DET NOUN NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	0.00	0.00	1
3	0.33	0.50	0.40	2
4	0.00	0.00	0.00	1
5	0.50	1.00	0.67	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.33	9
macro avg	0.69	0.36	0.30	9
weighted avg	0.69	0.33	0.27	9

Sentence: on november twenty third of this <unk> 1991 i <unk> like to fly from atlanta to denver and i <unk> like to fly on delta
True tags: ADP NOUN NUM PROPN ADP DET NOUN NUM PRON AUX VERB PART VERB ADP PROPN ADP PROPN CCONJ PRON AUX VERB PART VERB ADP PROPN
Predicted tags: ADP NOUN NOUN ADJ ADP NOUN PROPN VERB PRON AUX VERB ADP VERB ADP PROPN ADP PROPN PROPN PRON PRON VERB ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	0.75	0.67	4
2	0.71	1.00	0.83	5
3	0.33	0.50	0.40	2
4	0.80	1.00	0.89	4
5	1.00	0.00	0.00	1
6	0.67	1.00	0.80	2
7	0.00	1.00	0.00	0
8	1.00	0.50	0.67	2
9	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	2

	precision	recall	f1-score	support
accuracy			0.64	25
macro avg	0.74	0.52	0.39	25
weighted avg	0.77	0.64	0.56	25

Sentence: can you tell me the flights on october fifteenth 1991 from boston to oakland
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADJ NUM ADP PROPN ADP PROPN
Predicted tags: VERB PRON VERB PRON DET NOUN ADP PROPN PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.79	14
macro avg	0.90	0.67	0.60	14
weighted avg	0.88	0.79	0.71	14

Sentence: show me all united flights from denver to san francisco for september first 1991
True tags: VERB PRON DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ NUM
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	3
3	0.40	1.00	0.57	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.79	14
macro avg	0.93	0.72	0.68	14
weighted avg	0.91	0.79	0.76	14

Sentence: information on american airline flights from washington to philadelphia early morning times of flight
True tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NOUN
Predicted tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
7	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.95	0.75	0.72	14
weighted avg	0.94	0.93	0.90	14

Sentence: please give me the flight times i would like to fly from boston to baltimore in the morning before 8
True tags: INTJ VERB PRON DET NOUN NOUN PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NUM
Predicted tags: VERB VERB PRON DET NOUN NOUN PRON VERB VERB ADP VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.80	1.00	0.89	4
3	0.75	1.00	0.86	3
4	0.60	1.00	0.75	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.80	20
macro avg	0.92	0.60	0.55	20
weighted avg	0.86	0.80	0.72	20

Sentence: please list the flight times for boston to pittsburgh
True tags: INTJ VERB DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.92	0.83	0.78	9
weighted avg	0.94	0.89	0.85	9

Sentence: show me all flights and fares from dallas to san francisco
True tags: VERB PRON DET NOUN CCONJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.95	0.86	0.83	11
weighted avg	0.94	0.91	0.87	11

Sentence: please list me the flights and their cost of all airlines flying from denver to baltimore
True tags: INTJ VERB PRON DET NOUN CCONJ DET NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: VERB VERB PRON DET NOUN NOUN PROPN VERB ADP DET NOUN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	0.67	0.67	0.67	3
4	0.33	0.50	0.40	2
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.69	16
macro avg	0.81	0.60	0.57	16
weighted avg	0.79	0.69	0.66	16

Sentence: give me the flights and fares on december twenty seventh from indianapolis to orlando
True tags: VERB PRON DET NOUN CCONJ NOUN ADP NOUN NUM ADJ ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	0.50	0.67	0.57	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.71	14
macro avg	0.89	0.63	0.58	14
weighted avg	0.82	0.71	0.65	14

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: is there ground transportation from lga into new york city
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: AUX PRON NOUN NOUN ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	0.50	0.67	2
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	0.00	1.00	0.00	0
accuracy			0.80	10
macro avg	0.80	0.75	0.59	10
weighted avg	0.92	0.80	0.79	10

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: how far is toronto international from downtown
True tags: ADV ADV AUX PROPN PROPN ADP NOUN
Predicted tags: VERB VERB AUX PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	1
4	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.57	7
macro avg	0.78	0.67	0.47	7
weighted avg	0.90	0.57	0.51	7

Sentence: how far is los angeles international from downtown
True tags: ADV ADV AUX PROPN PROPN PROPN ADP NOUN
Predicted tags: VERB VERB AUX PROPN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	1
4	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2

	precision	recall	f1-score	support
accuracy			0.62	8
macro avg	0.79	0.67	0.48	8
weighted avg	0.91	0.62	0.57	8

Sentence: how long does a flight from baltimore to san francisco take
True tags: ADV ADV AUX DET NOUN ADP PROPN ADP PROPN PROPN VERB
Predicted tags: VERB VERB PROPN DET NOUN ADP PROPN ADP PROPN PROPN ADP
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	0.00	0.00	0.00	1
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.64	11
macro avg	0.77	0.57	0.52	11
weighted avg	0.78	0.64	0.56	11

Sentence: what airport in new york is closest to downtown
True tags: DET NOUN ADP PROPN PROPN AUX ADJ ADP NOUN
Predicted tags: PRON AUX ADP PROPN PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	0.00	0.00	0.00	1
accuracy			0.56	9
macro avg	0.64	0.50	0.33	9
weighted avg	0.78	0.56	0.52	9

Sentence: houston airports
True tags: PROPN NOUN
Predicted tags: VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0

	precision	recall	f1-score	support
accuracy			0.50	2
macro avg	0.67	0.67	0.33	2
weighted avg	1.00	0.50	0.50	2

Sentence: give me a list of airports in baltimore
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: where does delta fly to that american does not
True tags: ADV AUX PROPN VERB PART ADP PROPN AUX ADV
Predicted tags: VERB PROPN PROPN PROPN ADP VERB PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	2
2	0.00	0.00	0.00	1
4	0.00	0.00	0.00	1
8	1.00	0.00	0.00	2
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.22	9
macro avg	0.56	0.17	0.08	9
weighted avg	0.63	0.22	0.11	9

Sentence: which airline has the smallest plane leaving pittsburgh and arriving in baltimore on july fourth
True tags: DET NOUN VERB DET ADJ NOUN VERB PROPN CCONJ VERB ADP PROPN ADP NOUN ADJ
Predicted tags: DET NOUN NOUN DET NOUN PROPN PROPN PROPN PROPN VERB ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.40	1.00	0.57	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	0.40	0.67	0.50	3
4	1.00	0.33	0.50	3
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1
accuracy			0.60	15
macro avg	0.83	0.57	0.51	15
weighted avg	0.80	0.60	0.54	15

Sentence: which flight from pittsburgh to baltimore carries the smallest number of passengers
True tags: DET NOUN ADP PROPN ADP PROPN VERB DET ADJ NOUN ADP NOUN
Predicted tags: DET NOUN ADP PROPN ADP PROPN PROPN DET NOUN NOUN ADP ADP
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.75	1.00	0.86	3
3	0.67	0.67	0.67	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
accuracy			0.75	12
macro avg	0.85	0.61	0.55	12
weighted avg	0.80	0.75	0.68	12

Sentence: what is the first flight from boston to stapleton airport for tomorrow
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	0.50	0.67	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.83	12
macro avg	0.89	0.79	0.74	12
weighted avg	0.90	0.83	0.80	12

Sentence: list all the flights that arrive at general mitchell international
True tags: VERB DET DET NOUN ADP VERB ADP PROPN PROPN PROPN
Predicted tags: VERB DET DET NOUN ADP VERB ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: how much does it cost to go from downtown to logan airport
True tags: ADV ADV AUX PRON VERB PART VERB ADP NOUN ADP PROPN PROPN
Predicted tags: VERB VERB VERB VERB VERB ADP VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.67	1.00	0.80	2
3	1.00	0.00	0.00	1
4	0.33	1.00	0.50	2
6	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.50	12
macro avg	0.83	0.38	0.26	12
weighted avg	0.78	0.50	0.35	12

Sentence: show me flights from all airports to love field
True tags: VERB PRON NOUN ADP DET NOUN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN ADP PROPN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.89	9
macro avg	0.94	0.83	0.80	9
weighted avg	0.93	0.89	0.84	9

Sentence: flights from cincinnati to <unk> departing after 718 am american
True tags: NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN ADP ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.90	0.60	0.54	10
weighted avg	0.85	0.80	0.71	10

Sentence: show me all flights to dallas that are less than 1500 dollars round trip
True tags: VERB PRON DET NOUN ADP PROPN ADP AUX ADJ ADP NUM NOUN NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP VERB VERB VERB VERB VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	0.67	0.80	3
3	1.00	0.75	0.86	4
4	0.17	1.00	0.29	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.64	14
macro avg	0.91	0.60	0.55	14
weighted avg	0.94	0.64	0.65	14

Sentence: round trip fares from pittsburgh to philadelphia under 1000 dollars
True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	4
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.88	0.67	0.62	10
weighted avg	0.90	0.80	0.77	10

Sentence: round trip fares from baltimore to philadelphia under 1000 dollars
True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	4
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.88	0.67	0.62	10
weighted avg	0.90	0.80	0.77	10

Sentence: all flights from baltimore to philadelphia less than 1000 dollars
True tags: DET NOUN ADP PROPN ADP PROPN ADJ ADP NUM NOUN
Predicted tags: DET NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.40	1.00	0.57	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.70	10
macro avg	0.90	0.61	0.56	10
weighted avg	0.88	0.70	0.65	10

Sentence: how many seats in a 100
True tags: ADV ADJ NOUN ADP DET PROPN
Predicted tags: VERB NOUN VERB ADP DET PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1

	precision	recall	f1-score	support
2	1.00	1.00	1.00	1
3	0.00	0.00	0.00	1
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.50	6
macro avg	0.71	0.57	0.43	6
weighted avg	0.83	0.50	0.50	6

Sentence: how many passengers can a boeing 737 hold
True tags: ADV ADJ NOUN AUX DET PROPN NUM VERB
Predicted tags: VERB NOUN NOUN VERB DET NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.20	1.00	0.33	1
4	0.00	0.00	0.00	1
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.25	8
macro avg	0.78	0.25	0.17	8
weighted avg	0.78	0.25	0.17	8

Sentence: what is the seating capacity of a <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.94	0.83	0.80	8
weighted avg	0.92	0.88	0.82	8

Sentence: what is the seating capacity for delta be1
True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the flights from indianapolis to orlando with round trip fares less than <unk>
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN ADJ ADP NUM
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	0.75	0.86	4
3	0.80	1.00	0.89	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.91	0.72	0.68	15
weighted avg	0.88	0.80	0.75	15

Sentence: show me what flights are available from baltimore to dallas with economy fares
True tags: VERB PRON DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON PRON NOUN VERB AUX ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1

	precision	recall	f1-score	support
6	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
8	0.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.75	0.62	0.54	13
weighted avg	0.85	0.77	0.72	13

Sentence: baltimore to kansas city economy
True tags: PROPN ADP PROPN PROPN NOUN
Predicted tags: PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.92	0.67	0.62	5
weighted avg	0.85	0.80	0.71	5

Sentence: economy fares new york to miami round trip
True tags: NOUN NOUN PROPN PROPN ADP PROPN NOUN NOUN
Predicted tags: NOUN NOUN PROPN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: find me all the round trip flights from burbank to milwaukee stopping in <unk> louis
True tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN VERB ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.97	0.92	0.93	15
weighted avg	0.95	0.93	0.93	15

Sentence: i <unk> like to find a flight from charlotte to las vegas and make a stop in <unk> louis
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.71	1.00	0.83	5
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.84	19
macro avg	0.94	0.74	0.72	19
weighted avg	0.89	0.84	0.80	19

Sentence: can you tell me which flights go from memphis to tacoma and make a stop in los angeles
True tags: AUX PRON VERB PRON DET NOUN VERB ADP PROPN ADP PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Predicted tags: VERB PRON VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	0.50	0.33	0.40	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.78	18
macro avg	0.85	0.67	0.62	18
weighted avg	0.81	0.78	0.72	18

Sentence: is there a flight between oakland and boston with a stopover in dallas fort worth on twa
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN PROPN PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.86	1.00	0.92	6
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
accuracy			0.88	17
macro avg	0.86	0.75	0.62	17
weighted avg	0.95	0.88	0.86	17

Sentence: show me all direct flights from san francisco to boston departing before noon
True tags: VERB PRON DET ADJ NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.89	0.79	0.74	13
weighted avg	0.90	0.85	0.81	13

Sentence: do you have an early morning direct flight from philadelphia to pittsburgh
True tags: AUX PRON VERB DET ADJ NOUN ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON VERB VERB NOUN NOUN PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	0.33	1.00	0.50	1
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
8	1.00	0.00	0.00	1
accuracy			0.67	12
macro avg	0.83	0.62	0.51	12
weighted avg	0.83	0.67	0.56	12

Sentence: which united flights from boston to san francisco make connections
True tags: DET PROPN NOUN ADP PROPN ADP PROPN PROPN VERB NOUN
Predicted tags: DET VERB NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	0.75	0.67	4
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
4	0.00	0.00	0.00	1
5	1.00	1.00	1.00	1
accuracy			0.70	10
macro avg	0.72	0.65	0.67	10
weighted avg	0.74	0.70	0.70	10

Sentence: nonstop or connecting flights from seattle to boston
True tags: NOUN CCONJ VERB NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	2
4	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.90	0.60	0.53	8
weighted avg	0.88	0.75	0.67	8

Sentence: please give me direct morning flights from pittsburgh to atlanta
True tags: INTJ VERB PRON ADJ NOUN NOUN ADP PROPN ADP PROPN

Predicted tags: VERB VERB PRON VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.33	1.00	0.50	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.90	0.71	0.64	10
weighted avg	0.93	0.80	0.75	10

Sentence: list the flights that leave from philadelphia to atlanta early thursday morning before 8 am
True tags: VERB DET NOUN ADP VERB ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NUM NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN NOUN NOUN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	4
3	0.80	1.00	0.89	4
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.90	0.64	0.60	15
weighted avg	0.88	0.80	0.75	15

Sentence: give me the flights from boston to san francisco leaving early today
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.95	0.86	0.83	12
weighted avg	0.94	0.92	0.88	12

Sentence: show me the continental flights leaving chicago early saturday morning
True tags: VERB PRON DET PROPN NOUN VERB PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET PROPN NOUN VERB PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.94	0.83	0.80	10
weighted avg	0.93	0.90	0.86	10

Sentence: which flights are leaving from kansas city to atlanta early monday morning
True tags: DET NOUN AUX VERB ADP PROPN PROPN ADP PROPN ADJ NOUN NOUN
Predicted tags: DET NOUN VERB VERB ADP PROPN PROPN ADP PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.89	0.71	0.65	12
weighted avg	0.90	0.83	0.77	12

Sentence: i would like to find flights from columbus to minneapolis on monday june fourteenth early in the morning or in the evening sunday june thirteenth thank you
True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADJ ADP DET NOUN CCONJ ADP DET NOUN NOUN NOUN ADJ VERB PRON

Predicted tags: PRON AUX VERB ADP VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN PROPN PROPN ADP DET NOUN NOUN ADP DET NOUN NOUN NOUN NOUN ADP VERB
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	0.71	1.00	0.83	5
3	0.78	1.00	0.88	7
4	0.67	0.67	0.67	3
5	1.00	1.00	1.00	2
6	1.00	0.50	0.67	2
7	1.00	0.00	0.00	3
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.74	27
macro avg	0.87	0.62	0.57	27
weighted avg	0.82	0.74	0.67	27

Sentence: and from milwaukee to atlanta before 10 am daily
True tags: CCONJ ADP PROPN ADP PROPN ADP NUM NOUN ADJ
Predicted tags: VERB ADP PROPN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
4	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.74	0.57	0.35	9
weighted avg	0.87	0.67	0.59	9

Sentence: list daily flights from denver to boston
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.86	7
macro avg	0.90	0.80	0.73	7
weighted avg	0.93	0.86	0.81	7

Sentence: list flights from boston to pittsburgh daily
True tags: VERB NOUN ADP PROPN ADP PROPN ADJ
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.93	0.80	0.76	7
weighted avg	0.90	0.86	0.80	7

Sentence: show me all daily flights between milwaukee and orlando
True tags: VERB PRON DET ADJ NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN CCONJ
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.50	0.50	2
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
10	0.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.75	0.69	0.65	9
weighted avg	0.72	0.67	0.63	9

Sentence: list daily flights from boston to oakland using continental airlines
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN VERB PROPN PROPN
Predicted tags: VERB NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1

	precision	recall	f1-score	support
4	1.00	0.50	0.67	2
7	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.86	0.70	0.64	10
weighted avg	0.87	0.80	0.76	10

Sentence: show me the flights arriving in baltimore on june fifteenth leaving either from denver or dallas
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ VERB CCONJ ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP NOUN NOUN VERB VERB ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	2
4	0.67	0.67	0.67	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
10	1.00	0.00	0.00	2
accuracy			0.75	16
macro avg	0.86	0.71	0.65	16
weighted avg	0.83	0.75	0.68	16

Sentence: list the flights from pittsburgh to baltimore arriving on july first
True tags: VERB DET NOUN ADP PROPN ADP PROPN VERB ADP NOUN ADJ
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.89	0.75	0.71	11
weighted avg	0.88	0.82	0.78	11

Sentence: show me the flights arriving on baltimore on june fourteenth
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP NOUN PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.88	0.79	0.73	10
weighted avg	0.88	0.80	0.76	10

Sentence: show me the cheapest flight arriving in baltimore on june fourteenth starting from dallas
True tags: VERB PRON DET ADJ NOUN VERB ADP PROPN ADP NOUN ADJ VERB ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP NOUN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	2
4	1.00	0.33	0.50	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
accuracy			0.71	14
macro avg	0.86	0.76	0.69	14
weighted avg	0.86	0.71	0.65	14

Sentence: how many airlines fly from new york to los angeles by way of milwaukee
True tags: ADV ADJ NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Predicted tags: VERB NOUN NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.86	14
macro avg	0.86	0.67	0.58	14
weighted avg	0.92	0.86	0.80	14

Sentence: how many flights does twa have in business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: VERB NOUN NOUN PROPN PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.82	0.57	0.46	9
weighted avg	0.81	0.67	0.54	9

Sentence: how many first class flights does delta have today
True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB NOUN
Predicted tags: VERB NOUN NOUN NOUN NOUN PROPN PROPN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
3	0.50	0.67	0.57	3
4	0.00	0.00	0.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.33	9
macro avg	0.64	0.28	0.18	9
weighted avg	0.65	0.33	0.25	9

Sentence: how many flights does twa have with business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: VERB NOUN NOUN PROPN PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
4	0.50	1.00	0.67	1

	precision	recall	f1-score	support
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.82	0.57	0.46	9
weighted avg	0.81	0.67	0.54	9

Sentence: how many first class flights does united have leaving from all cities today
True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB VERB ADP DET NOUN NOUN
Predicted tags: VERB NOUN NOUN NOUN NOUN PROPN PROPN PROPN VERB ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.25	1.00	0.40	1
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	4
4	0.50	0.50	0.50	2
5	1.00	0.00	0.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.54	13
macro avg	0.80	0.44	0.34	13
weighted avg	0.76	0.54	0.43	13

Sentence: what time does the tuesday morning 755 flight leaving washington arrive in san francisco
True tags: DET NOUN AUX DET NOUN NOUN NUM NOUN VERB PROPN VERB ADP PROPN PROPN
Predicted tags: PRON NOUN AUX DET NOUN NOUN PROPN NOUN VERB PROPN VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.84	0.81	0.69	14
weighted avg	0.95	0.86	0.85	14

Sentence: i would like the time of your earliest flight in the morning from philadelphia to washington on american airlines
True tags: PRON AUX VERB DET NOUN ADP DET ADJ NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN NOUN NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	5
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.89	19
macro avg	0.94	0.83	0.82	19
weighted avg	0.92	0.89	0.87	19

Sentence: when does continental fly from philadelphia to denver on sundays
True tags: ADV AUX PROPN VERB ADP PROPN ADP PROPN ADP PROPN
Predicted tags: VERB PROPN PROPN VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	3
3	0.00	1.00	0.00	0
4	0.50	1.00	0.67	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.70	10
macro avg	0.71	0.62	0.40	10
weighted avg	0.85	0.70	0.67	10

Sentence: i would like a schedule of flights from san francisco to boston on wednesday
True tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: in pittsburgh i <unk> like to rent a car
True tags: ADP PROPN PRON AUX VERB PART VERB DET NOUN
Predicted tags: ADP PROPN PRON AUX VERB ADP VERB DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.94	0.88	0.83	9
weighted avg	0.94	0.89	0.85	9

Sentence: is there limousine service available at baltimore airport
True tags: AUX PRON NOUN NOUN ADJ ADP PROPN PROPN
Predicted tags: AUX PRON DET NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	0.50	0.50	0.50	2
5	0.00	1.00	0.00	0
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.75	8
macro avg	0.79	0.79	0.64	8
weighted avg	0.88	0.75	0.75	8

Sentence: may i have a listing of flights from long beach california to columbus ohio on wednesday
True tags: AUX PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PROPN PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	0.80	0.80	5
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.94	0.83	0.81	16
weighted avg	0.89	0.88	0.85	16

Sentence: i need a ticket from nashville tennessee to seattle
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> need information please on a flight from washington dc san francisco california
True tags: PRON AUX VERB NOUN INTJ ADP DET NOUN ADP PROPN PROPN PROPN PROPN PROPN
Predicted tags: PRON AUX VERB NOUN VERB ADP DET NOUN ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.94	0.88	0.83	14
weighted avg	0.96	0.93	0.90	14

Sentence: please list any flights from oakland california to philadelphia on tuesday
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: VERB VERB VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.33	1.00	0.50	1
5	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.89	0.67	0.58	11
weighted avg	0.94	0.82	0.77	11

Sentence: can you tell me which flight from dallas to baltimore has the least expensive fare
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN VERB DET ADJ ADJ NOUN
Predicted tags: VERB PRON VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN DET NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	2
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	2
8	1.00	0.00	0.00	1
accuracy			0.73	15
macro avg	0.83	0.69	0.62	15
weighted avg	0.82	0.73	0.66	15

Sentence: of the flights available from dallas to baltimore on august third which airline has the least expensive flight
True tags: ADP DET NOUN ADJ ADP PROPN ADP PROPN ADP NOUN ADJ DET NOUN VERB DET ADJ ADJ NOUN
Predicted tags: ADP DET NOUN NOUN ADP PROPN ADP PROPN ADP NOUN NOUN DET NOUN NOUN DET NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.44	1.00	0.62	4
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	3
7	1.00	0.00	0.00	4
accuracy			0.72	18
macro avg	0.91	0.67	0.60	18
weighted avg	0.88	0.72	0.64	18

Sentence: what are the most expensive first class tickets between boston and san francisco
True tags: PRON AUX DET ADJ ADJ ADV NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADJ NOUN NOUN ADP PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	0.00	0.00	2
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.69	13
macro avg	0.81	0.67	0.61	13
weighted avg	0.71	0.69	0.61	13

Sentence: what are the least expensive flights from denver to atlanta
True tags: PRON AUX DET ADJ ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	0.33	1.00	0.50	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
8	1.00	1.00	1.00	1
accuracy			0.80	10
macro avg	0.90	0.86	0.79	10
weighted avg	0.93	0.80	0.75	10

Sentence: what <unk> the price of the least expensive first class round trip ticket on us air from cleveland to miami
True tags: PRON AUX DET NOUN ADP DET ADJ ADJ ADV NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP DET NOUN NOUN NOUN NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	0.62	1.00	0.77	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.85	20
macro avg	0.95	0.75	0.72	20
weighted avg	0.91	0.85	0.79	20

Sentence: great now what i want to find out is on april twentieth from washington to denver do you have a flight least expensive fare around 5 <unk> in the morning
True tags: ADJ ADV PRON PRON VERB PART VERB ADV AUX ADP NOUN ADJ ADP PROPN ADP PROPN AUX PRON VERB DET NOUN ADJ ADJ NOUN ADP NUM ADV ADP DET NOUN
Predicted tags: PROPN VERB PRON PRON AUX ADP VERB VERB VERB ADP PROPN NOUN ADP PROPN ADP PROPN PROPN PRON VERB DET NOUN NOUN PROPN NOUN NOUN NOUN PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.29	1.00	0.44	2
2	0.80	0.80	0.80	5
3	0.43	0.75	0.55	4
4	0.40	0.67	0.50	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	3

	precision	recall	f1-score	support
7	1.00	0.00	0.00	4
8	0.00	0.00	0.00	2
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	3
12	1.00	0.00	0.00	1
accuracy			0.53	30
macro avg	0.72	0.47	0.39	30
weighted avg	0.72	0.53	0.45	30

Sentence: what ground transportation is available between milwaukee airport and downtown milwaukee
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN CCONJ NOUN PROPN
Predicted tags: PRON NOUN NOUN PROPN PROPN ADP PROPN PROPN PROPN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.64	11
macro avg	0.81	0.50	0.33	11
weighted avg	0.86	0.64	0.55	11

Sentence: please list all the takeoffs and landings for general mitchell international
True tags: INTJ VERB DET DET NOUN CCONJ NOUN ADP PROPN PROPN PROPN
Predicted tags: VERB VERB DET DET NOUN PROPN PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	1
3	1.00	0.50	0.67	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2
10	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.73	11
macro avg	0.87	0.64	0.58	11

weighted avg   0.85   0.73   0.66   11

Sentence: what ground transportation is available from la guardia airport into new york city
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN NOUN PROPN PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	6
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.82	0.57	0.41	13
weighted avg	0.88	0.77	0.70	13

Sentence: what ground transportation is available from dallas fort worth airport to downtown dallas
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON NOUN NOUN PROPN PROPN ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.71	1.00	0.83	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.82	0.57	0.40	13
weighted avg	0.89	0.77	0.71	13

Sentence: ground transportation please in the city of boston between airport and downtown
True tags: NOUN NOUN INTJ ADP DET PROPN ADP PROPN ADP NOUN CCONJ NOUN
Predicted tags: NOUN NOUN VERB ADP DET PROPN ADP PROPN ADP PROPN CCONJ NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.81	0.82	0.67	12
weighted avg	0.94	0.83	0.84	12

Sentence: ground san francisco
True tags: NOUN PROPN PROPN
Predicted tags: NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: tell me about ground transportation at san francisco
True tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: now show me all the flights from <unk> louis to burbank
True tags: ADV VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: NOUN VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: saturday or sunday flights between milwaukee and phoenix american airlines
True tags: NOUN CCONJ NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: NOUN NOUN NOUN NOUN ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
10	1.00	0.00	0.00	2
accuracy			0.80	10
macro avg	0.89	0.75	0.69	10
weighted avg	0.84	0.80	0.71	10

Sentence: show me all flights from denver or philadelphia or pittsburgh to baltimore
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN CCONJ PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN PROPN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	2
accuracy			0.83	12
macro avg	0.95	0.86	0.83	12
weighted avg	0.89	0.83	0.77	12

Sentence: what are the flights from cleveland to indianapolis on wednesday may twelfth on either twa delta or continental
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADP CCONJ PROPN PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN PROPN PROPN ADP NOUN NOUN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.57	0.80	0.67	5
2	1.00	1.00	1.00	4
3	0.50	0.67	0.57	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	2
accuracy			0.72	18
macro avg	0.88	0.68	0.65	18
weighted avg	0.80	0.72	0.67	18

Sentence: list all flights that leave from baltimore or denver or pittsburgh and arrive in philadelphia
True tags: VERB DET NOUN ADP VERB ADP PROPN CCONJ PROPN CCONJ PROPN CCONJ VERB ADP PROPN
Predicted tags: VERB DET NOUN ADP VERB ADP PROPN PROPN PROPN PROPN PROPN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
10	1.00	0.33	0.50	3
accuracy			0.87	15
macro avg	0.94	0.89	0.88	15
weighted avg	0.91	0.87	0.85	15

Sentence: what does the fare code y mean
True tags: PRON AUX DET NOUN NOUN NOUN VERB
Predicted tags: PRON AUX DET NOUN NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.00	1.00	0.00	0

	precision	recall	f1-score	support
3	1.00	0.67	0.80	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.71	7
macro avg	0.83	0.78	0.63	7
weighted avg	1.00	0.71	0.77	7

Sentence: what does fare code qw mean
True tags: PRON AUX NOUN NOUN PROPN VERB
Predicted tags: PRON AUX NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what is fare code qw
True tags: PRON AUX NOUN NOUN PROPN
Predicted tags: PRON AUX NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: what does fare code <unk> mean
True tags: PRON AUX NOUN NOUN PROPN VERB
Predicted tags: PRON AUX NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what does the fare code yn mean
True tags: PRON AUX DET NOUN NOUN PROPN VERB
Predicted tags: PRON AUX DET NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list all flights on united from san francisco to boston with fare code qx
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what is the latest flight from boston to denver that serves a meal
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.97	0.88	0.86	13
weighted avg	0.94	0.92	0.89	13

Sentence: list all flights from chicago to seattle on continental which depart on saturday and serve meals
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PRON VERB ADP NOUN CCONJ VERB NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN DET VERB ADP NOUN NOUN VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.67	0.67	0.67	3
4	0.75	1.00	0.86	3
5	0.50	1.00	0.67	1
6	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.81	16
macro avg	0.85	0.67	0.60	16
weighted avg	0.86	0.81	0.76	16

Sentence: could you tell me what the earliest flight that goes between atlanta and denver is which serves a meal
True tags: AUX PRON VERB PRON PRON DET ADJ NOUN ADP VERB ADP PROPN CCONJ PROPN AUX PRON VERB DET NOUN
Predicted tags: VERB PRON VERB PRON PRON DET NOUN NOUN ADP PROPN ADP PROPN CCONJ PROPN PROPN DET NOUN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	2
4	0.50	0.33	0.40	3
5	0.67	1.00	0.80	2
6	1.00	0.75	0.86	4
7	1.00	0.00	0.00	1

	precision	recall	f1-score	support
8	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
accuracy			0.68	19
macro avg	0.80	0.68	0.60	19
weighted avg	0.78	0.68	0.63	19

Sentence: give me the saturday morning flights with meals from chicago to minneapolis
True tags: VERB PRON DET NOUN NOUN NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.94	0.96	0.94	12
weighted avg	0.94	0.92	0.92	12

Sentence: list flights from seattle to salt lake city on delta l10
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all flights from san diego to phoenix on a boeing 737
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET PROPN NUM
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	3
3	0.33	1.00	0.50	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.90	0.82	0.77	13
weighted avg	0.95	0.85	0.84	13

Sentence: what is a d9s
True tags: PRON AUX DET PROPN
Predicted tags: PRON AUX DET ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.75	4
macro avg	0.80	0.80	0.60	4
weighted avg	1.00	0.75	0.75	4

Sentence: what is the earliest flight between baltimore and oakland that serves breakfast
True tags: PRON AUX DET ADJ NOUN ADP PROPN CCONJ PROPN ADP VERB NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN PROPN ADP VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.83	12

	macro avg	0.91	0.83	0.79	12
weighted avg		0.90	0.83	0.80	12

Sentence: a breakfast flight from denver to san francisco please
True tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN INTJ
Predicted tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.95	0.80	0.77	9
weighted avg	0.92	0.89	0.84	9

Sentence: list flights between boston and san francisco that serve breakfast
True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN ADP VERB NOUN
Predicted tags: VERB NOUN ADP PROPN PROPN PROPN PROPN ADP VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
4	0.67	1.00	0.80	2
10	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.88	0.70	0.66	10
weighted avg	0.86	0.80	0.75	10

Sentence: give me all flights from boston to philadelphia next week arriving after lunch
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADJ NOUN VERB ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.92	0.79	0.76	13
weighted avg	0.89	0.85	0.81	13

Sentence: please show me flights from pittsburgh to atlanta on wednesday morning serving breakfast

True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN VERB NOUN

Predicted tags: VERB VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.80	1.00	0.89	4
4	0.50	0.50	0.50	2
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.88	0.75	0.73	13
weighted avg	0.86	0.85	0.81	13

Sentence: what is the first flight that goes from atlanta to baltimore that serves breakfast

True tags: PRON AUX DET ADJ NOUN ADP VERB ADP PROPN ADP PROPN ADP VERB NOUN

Predicted tags: PRON AUX DET DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP VERB NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	14
macro avg	0.90	0.81	0.77	14
weighted avg	0.92	0.86	0.83	14

Sentence: which flights arrive in <unk> louis from <unk> paul on thursday morning

True tags: DET NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN

Predicted tags: DET NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.95	0.80	0.77	12
weighted avg	0.94	0.92	0.88	12

Sentence: i would like one flight from kansas city to <unk> paul arriving around dinnertime 6 pm

True tags: PRON AUX VERB NUM NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN NUM NOUN

Predicted tags: PRON AUX VERB VERB NOUN ADP PROPN PROPN ADP PROPN PROPN PROPN VERB NOUN NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	0.67	0.80	3
3	0.75	1.00	0.86	3
4	0.33	0.50	0.40	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
accuracy			0.75	16
macro avg	0.84	0.74	0.71	16
weighted avg	0.82	0.75	0.71	16

Sentence: list flights from dallas to houston arriving sunday afternoon

True tags: VERB NOUN ADP PROPN ADP PROPN VERB NOUN NOUN

Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
accuracy			0.89	9

macro avg	0.92	0.88	0.87	9
weighted avg	0.93	0.89	0.88	9

Sentence: list nonstop flights from baltimore washington airport to oakland that depart in the afternoon
True tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP VERB ADP DET NOUN
Predicted tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP VERB ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i need flight information on thursday leaving pittsburgh and arriving in baltimore in the morning
True tags: PRON VERB NOUN NOUN ADP NOUN VERB PROPN CCONJ VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN VERB VERB VERB VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	0.60	1.00	0.75	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.94	0.79	0.77	15
weighted avg	0.92	0.87	0.84	15

Sentence: morning flights out of san francisco arriving boston afternoon
True tags: NOUN NOUN ADP ADP PROPN PROPN VERB PROPN NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3

	precision	recall	f1-score	support
2	1.00	0.50	0.67	2
3	0.75	1.00	0.86	3
4	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.88	0.62	0.60	9
weighted avg	0.83	0.78	0.72	9

Sentence: i would like to <unk> my flight in washington dc stop in denver with the destination city of san francisco
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN VERB ADP PROPN ADP DET NOUN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP VERB VERB NOUN ADP PROPN PROPN PROPN ADP PROPN ADP DET NOUN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.86	1.00	0.92	6
2	0.80	1.00	0.89	4
3	1.00	1.00	1.00	2
4	0.67	0.67	0.67	3
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.85	20
macro avg	0.92	0.77	0.77	20
weighted avg	0.87	0.85	0.82	20

Sentence: show me a list of flights on july twenty second leaving dc to dallas leaving dc after 6 pm
True tags: VERB PRON DET NOUN ADP NOUN ADP NOUN NUM ADJ VERB PROPN ADP PROPN VERB PROPN ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN PROPN NOUN VERB VERB ADP PROPN VERB PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.40	0.67	0.50	3
2	1.00	1.00	1.00	4
3	0.75	0.75	0.75	4
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	2
accuracy			0.74	19
macro avg	0.86	0.68	0.64	19

weighted avg   0.81   0.74   0.69   19

Sentence: what airlines from washington dc to columbus
True tags: DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:
          precision   recall f1-score   support

       1   1.00   1.00   1.00   3
       2   1.00   1.00   1.00   2
       3   1.00   1.00   1.00   1
       5   1.00   0.00   0.00   1
       6   0.00   1.00   0.00   0

    accuracy   0.86   7
   macro avg   0.80   0.80   0.60   7
weighted avg   1.00   0.86   0.86   7

Sentence: list flights from washington dc to boston
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:
          precision   recall f1-score   support

       1   1.00   1.00   1.00   3
       2   1.00   1.00   1.00   2
       3   1.00   1.00   1.00   1
       4   1.00   1.00   1.00   1

    accuracy   1.00   7
   macro avg   1.00   1.00   1.00   7
weighted avg   1.00   1.00   1.00   7

Sentence: could you please give me information <unk> american airlines a flight
from washington dc to philadelphia the earliest one in the morning as possible
True tags: AUX PRON INTJ VERB PRON NOUN VERB PROPN PROPN DET
NOUN ADP PROPN PROPN ADP PROPN DET ADJ PRON ADP DET NOUN ADP
ADJ
Predicted tags: VERB PRON VERB VERB PRON NOUN PROPN PROPN PROPN
DET NOUN ADP PROPN PROPN ADP PROPN DET NOUN NOUN ADP DET
NOUN NOUN NOUN
Classification Report:
          precision   recall f1-score   support

       1   0.83   1.00   0.91   5
       2   1.00   0.75   0.86   4
       3   0.43   1.00   0.60   3
       4   0.33   0.50   0.40   2
       5   1.00   1.00   1.00   3
       6   1.00   0.67   0.80   3

	precision	recall	f1-score	support
7	1.00	0.00	0.00	2
8	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.71	24
macro avg	0.84	0.55	0.51	24
weighted avg	0.84	0.71	0.67	24

Sentence: list flights from washington dc to pittsburgh
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need a flight from washington dc to san diego
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i would like to fly from boston to baltimore please tell me what are the times of the flights
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN INTJ VERB PRON PRON AUX DET NOUN ADP DET NOUN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN PROPN VERB PRON PRON AUX DET NOUN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	3
8	1.00	1.00	1.00	2
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	19
macro avg	0.94	0.78	0.74	19
weighted avg	0.93	0.89	0.85	19

Sentence: does flight dl <unk> dl <unk> from boston to denver stop in philadelphia
True tags: AUX NOUN PROPN NUM PROPN NUM ADP PROPN ADP PROPN VERB ADP PROPN
Predicted tags: PROPN NOUN NOUN PROPN VERB VERB ADP PROPN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.60	0.55	5
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
4	0.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	2
accuracy			0.54	13
macro avg	0.67	0.43	0.37	13
weighted avg	0.69	0.54	0.49	13

Sentence: what kind of airplane is flight ua 281 from boston to denver
True tags: DET NOUN ADP NOUN AUX NOUN PROPN NUM ADP PROPN ADP PROPN
Predicted tags: PRON AUX ADP VERB PROPN NOUN PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	0.33	0.50	3
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.00	0.00	0.00	1
9	1.00	0.00	0.00	1

accuracy		0.58	12	
macro avg	0.57	0.54	0.28	12
weighted avg	0.82	0.58	0.56	12

Sentence: what is the price of american airlines flight <unk> from new york to los angeles
True tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN NUM ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.86	1.00	0.92	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy		0.93	15	
macro avg	0.98	0.86	0.85	15
weighted avg	0.94	0.93	0.90	15

Sentence: what is the first class fare on united flight <unk> from denver to boston
True tags: PRON AUX DET ADV NOUN NOUN ADP PROPN NOUN NUM ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET DET NOUN NOUN ADP PROPN NOUN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy		0.86	14	
macro avg	0.91	0.75	0.69	14
weighted avg	0.91	0.86	0.80	14

Sentence: how much does flight ua 281 from boston to denver cost
True tags: ADV ADV AUX NOUN PROPN NUM ADP PROPN ADP PROPN VERB
Predicted tags: VERB VERB VERB NOUN PROPN PROPN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.55	11
macro avg	0.80	0.43	0.39	11
weighted avg	0.80	0.55	0.48	11

Sentence: does flight dl <unk> from philadelphia to denver fly on saturdays
True tags: AUX NOUN PROPN PROPN ADP PROPN ADP PROPN VERB ADP PROPN
Predicted tags: PROPN NOUN NOUN PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	0.60	0.60	5
2	1.00	1.00	1.00	3
3	0.33	1.00	0.50	1
4	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.64	11
macro avg	0.79	0.52	0.42	11
weighted avg	0.76	0.64	0.59	11

Sentence: what airline is dl <unk>
True tags: DET NOUN AUX PROPN NUM
Predicted tags: PRON NOUN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.40	5
macro avg	0.72	0.50	0.25	5
weighted avg	0.87	0.40	0.30	5

Sentence: what first class airplane goes from philadelphia to san francisco and stops in dallas in the afternoon on monday
True tags: DET ADV NOUN NOUN VERB ADP PROPN ADP PROPN PROPN CCONJ VERB ADP PROPN ADP DET NOUN ADP NOUN
Predicted tags: PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN CCONJ ADP PROPN ADP DET NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	5
3	0.80	1.00	0.89	4
4	1.00	0.00	0.00	2
5	0.50	0.50	0.50	2
6	0.00	1.00	0.00	0
10	0.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.74	19
macro avg	0.64	0.56	0.41	19
weighted avg	0.81	0.74	0.69	19

Sentence: what planes are used by twa
True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: PRON AUX AUX AUX ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.33	1.00	0.50	1
accuracy			0.50	6
macro avg	0.76	0.57	0.36	6
weighted avg	0.89	0.50	0.42	6

Sentence: <unk> leaving denver to san francisco before 10 am what type of aircraft is used
True tags: VERB VERB PROPN ADP PROPN PROPN ADP NUM NOUN DET NOUN ADP NOUN AUX VERB
Predicted tags: VERB VERB PROPN ADP PROPN PROPN ADP PROPN NOUN DET NOUN ADP NOUN AUX PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.94	0.81	0.79	15
weighted avg	0.92	0.87	0.84	15

Sentence: what kinds of planes are used by midway airlines
True tags: DET NOUN ADP NOUN AUX VERB ADP NOUN PROPN
Predicted tags: PRON AUX ADP PROPN AUX AUX ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	1.00	1.00	2
3	1.00	0.00	0.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.33	1.00	0.50	1
accuracy			0.44	9
macro avg	0.67	0.57	0.29	9
weighted avg	0.85	0.44	0.33	9

Sentence: what type of aircraft leaves from boston to washington dc at 9 am during a weekday
True tags: DET NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP DET NOUN
Predicted tags: PRON NOUN ADP VERB VERB ADP PROPN ADP PROPN PROPN ADP PROPN NOUN PROPN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	0.80	0.89	5
3	1.00	0.75	0.86	4
4	0.50	1.00	0.67	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.75	16
macro avg	0.73	0.72	0.55	16
weighted avg	0.89	0.75	0.76	16

Sentence: what type of aircraft are flying from cleveland to dallas before noon
True tags: DET NOUN ADP NOUN AUX VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN ADP VERB AUX VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	0.67	0.80	3
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.83	12
macro avg	0.79	0.81	0.64	12
weighted avg	0.96	0.83	0.84	12

Sentence: what airplane types fly from pittsburgh to baltimore
True tags: DET NOUN NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	0.00	0.00	2
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.00	1.00	0.00	0
accuracy			0.62	8
macro avg	0.64	0.71	0.38	8
weighted avg	0.94	0.62	0.58	8

Sentence: what is ground transportation between the san francisco airport and the city
True tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN CCONJ DET PROPN
Predicted tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN PROPN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.92	0.82	0.79	12
weighted avg	0.86	0.83	0.80	12

Sentence: what flights on united leave la guardia for san jose and arrive around 10 pm
True tags: DET NOUN ADP PROPN VERB PROPN PROPN ADP PROPN PROPN CCONJ VERB ADP NUM NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN NOUN ADP PROPN PROPN PROPN VERB VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.80	0.73	5
2	1.00	0.67	0.80	3
3	0.50	1.00	0.67	2
4	0.50	0.50	0.50	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.60	15
macro avg	0.71	0.50	0.34	15
weighted avg	0.76	0.60	0.56	15

Sentence: what ground transportation is available from the denver airport to downtown denver
True tags: DET NOUN NOUN AUX ADJ ADP DET PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON NOUN NOUN PROPN PROPN ADP DET PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	3
2	1.00	1.00	1.00	2
3	1.00	0.67	0.80	3
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.67	12
macro avg	0.79	0.60	0.45	12

weighted avg   0.88   0.67   0.64   12

Sentence: list us air flights leaving saturday from charlotte airport around 1 pm
True tags: VERB PROPN PROPN NOUN VERB NOUN ADP PROPN PROPN ADP NUM NOUN
Predicted tags: VERB PROPN PROPN NOUN VERB VERB ADP PROPN PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	0.50	0.67	2
3	1.00	0.67	0.80	3
4	0.67	1.00	0.80	2
9	1.00	0.00	0.00	1
accuracy			0.75	12
macro avg	0.87	0.63	0.61	12
weighted avg	0.83	0.75	0.71	12

Sentence: could you tell me about ground transportation arrangements from the dallas airport to downtown dallas
True tags: AUX PRON VERB PRON ADP NOUN NOUN NOUN ADP DET PROPN PROPN ADP NOUN PROPN
Predicted tags: VERB PRON VERB PRON ADP NOUN NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	2
8	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.87	0.68	0.61	15
weighted avg	0.89	0.80	0.76	15

Sentence: please list the flights taking off and landing on general mitchell international airport
True tags: INTJ VERB DET NOUN VERB ADV CCONJ NOUN ADP PROPN PROPN PROPN PROPN
Predicted tags: VERB VERB DET NOUN NOUN PROPN VERB VERB ADP NOUN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	1
3	0.33	0.50	0.40	2
4	0.25	0.50	0.33	2
5	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.54	13
macro avg	0.79	0.47	0.44	13
weighted avg	0.71	0.54	0.50	13

Sentence: i <unk> like to fly from cleveland to indianapolis tomorrow morning as early as possible what <unk> available
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN ADP ADV ADP ADJ PRON AUX ADJ
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN PROPN NOUN NOUN NOUN NOUN NOUN DET AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.67	0.50	0.57	4
3	0.20	0.50	0.29	2
4	1.00	1.00	1.00	2
5	0.00	1.00	0.00	0
6	1.00	0.50	0.67	2
7	1.00	0.00	0.00	2
8	0.67	1.00	0.80	2
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.56	18
macro avg	0.72	0.55	0.41	18
weighted avg	0.76	0.56	0.52	18

Sentence: i need a flight from logan to atlanta this afternoon
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.90	10
macro avg	0.94	0.92	0.91	10
weighted avg	0.93	0.90	0.89	10

Sentence: give me the latest flight tomorrow on american airlines from milwaukee to tacoma
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like to fly from columbus to nashville tomorrow morning
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.67	1.00	0.80	2
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.82	11
macro avg	0.90	0.79	0.75	11
weighted avg	0.88	0.82	0.78	11

Sentence: and what is the last flight from denver to boston for tomorrow evening
True tags: CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.85	0.85	0.73	13
weighted avg	0.95	0.85	0.85	13

Sentence: list evening flights tomorrow from phoenix to detroit
True tags: VERB NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	0.67	0.80	3
4	0.50	1.00	0.67	1
accuracy			0.88	8
macro avg	0.88	0.92	0.87	8
weighted avg	0.94	0.88	0.88	8

Sentence: show me the flights on continental from indianapolis to san diego in the afternoon tomorrow
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP DET NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: how many flights does northwest have leaving dulles
True tags: ADV ADJ NOUN AUX PROPN VERB VERB PROPN
Predicted tags: VERB NOUN NOUN PROPN PROPN VERB VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.50	0.50	2
3	0.50	1.00	0.67	1
4	0.50	1.00	0.67	2
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.50	8
macro avg	0.75	0.42	0.31	8
weighted avg	0.69	0.50	0.38	8

Sentence: nonstop flights from new york city to las vegas on sunday
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from los angeles to pittsburgh which arrive at pittsburgh on monday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN DET NOUN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	0.80	0.89	5
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1

```
   accuracy                      0.87        15
  macro avg        0.86    0.88    0.84       15
weighted avg       0.92    0.87    0.87       15
```

Sentence: show me all flights from philadelphia to dallas which arrive in dallas before 3 <unk> pm on saturday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN NOUN ADP PROPN ADP VERB VERB NOUN ADP NOUN
Classification Report:

```
            precision    recall  f1-score   support

       1       0.75      1.00      0.86         3
       2       1.00      0.83      0.91         6
       3       0.75      1.00      0.86         3
       4       0.33      0.50      0.40         2
       5       1.00      1.00      1.00         1
       6       1.00      1.00      1.00         1
       9       1.00      0.00      0.00         1
      11       1.00      0.00      0.00         1

   accuracy                      0.78        18
  macro avg        0.85    0.67    0.63       18
weighted avg       0.84    0.78    0.74       18
```

Sentence: what flights leave pittsburgh and arrive in los angeles after 5 pm on thursday
True tags: DET NOUN VERB PROPN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN ADP NOUN
Predicted tags: PRON NOUN VERB PROPN PROPN VERB ADP PROPN PROPN ADP NOUN NOUN ADP NOUN
Classification Report:

```
            precision    recall  f1-score   support

       1       0.75      1.00      0.86         3
       2       1.00      1.00      1.00         3
       3       0.75      1.00      0.86         3
       4       1.00      1.00      1.00         2
       5       1.00      0.00      0.00         1
       6       0.00      1.00      0.00         0
       9       1.00      0.00      0.00         1
      10       1.00      0.00      0.00         1

   accuracy                      0.79        14
  macro avg        0.81    0.62    0.46       14
weighted avg       0.89    0.79    0.72       14
```

Sentence: what is the earliest flight arriving in charlotte from <unk> louis on friday

True tags: PRON AUX DET ADJ NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.88	0.85	13
weighted avg	0.95	0.92	0.89	13

Sentence: what flights do you have from boston to pittsburgh on wednesday of next week after 6 pm
True tags: DET NOUN AUX PRON VERB ADP PROPN ADP PROPN ADP NOUN ADP ADJ NOUN ADP NUM NOUN
Predicted tags: PRON NOUN VERB VERB VERB ADP PROPN ADP PROPN ADP NOUN ADP NOUN NOUN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	0.67	1.00	0.80	4
4	0.33	1.00	0.50	1
5	1.00	0.00	0.00	1
6	0.00	0.00	0.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.71	17
macro avg	0.78	0.44	0.37	17
weighted avg	0.82	0.71	0.63	17

Sentence: i <unk> like a flight from <unk> petersburg to miami on that next thursday
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP DET ADJ NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.75	1.00	0.86	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy		0.86	14
macro avg	0.93	0.81	0.79	14
weighted avg	0.90	0.86	0.82	14

Sentence: i <unk> like to travel from kansas city to chicago next wednesday
True tags: PRON AUX VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy		0.83	12
macro avg	0.93	0.75	0.71	12
weighted avg	0.88	0.83	0.76	12

Sentence: i would like to fly from boston to philadelphia next thursday
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1

	accuracy		0.82	11
	macro avg	0.92	0.75	0.70	11
weighted avg		0.88	0.82	0.75	11

Sentence: tell me about flights from atlanta to charlotte next monday
True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.94	0.83	0.80	10
weighted avg	0.93	0.90	0.86	10

Sentence: what flights go from pittsburgh to baltimore after 8 <unk> next wednesday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV ADJ NOUN
Predicted tags: PRON NOUN NOUN ADP PROPN ADP PROPN ADP NOUN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.40	1.00	0.57	2
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.58	12
macro avg	0.79	0.44	0.26	12
weighted avg	0.84	0.58	0.48	12

Sentence: give me the fares for round trip flights from cleveland to miami next wednesday
True tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.95	0.86	0.83	14
weighted avg	0.95	0.93	0.90	14

Sentence: i want to leave chicago next tuesday and arrive in detroit around 6 pm
True tags: PRON VERB PART VERB PROPN ADJ NOUN CCONJ VERB ADP PROPN ADP NUM NOUN
Predicted tags: PRON VERB ADP VERB PROPN PROPN NOUN NOUN VERB ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	0.67	1.00	0.80	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.71	14
macro avg	0.87	0.56	0.47	14
weighted avg	0.83	0.71	0.61	14

Sentence: i want a flight from montreal to washington dc
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9

```
    macro avg     1.00    1.00    1.00      9
 weighted avg      1.00    1.00    1.00       9
```

Sentence: show me the flights leaving from atlanta for washington dc on thursday morning
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN
Classification Report:

```
            precision    recall  f1-score   support

        1       1.00      1.00      1.00         3
        2       1.00      1.00      1.00         3
        3       1.00      1.00      1.00         3
        4       1.00      1.00      1.00         2
        5       1.00      1.00      1.00         1
        6       1.00      1.00      1.00         1

 accuracy                          1.00        13
 macro avg      1.00      1.00      1.00        13
 weighted avg    1.00      1.00      1.00        13
```

Sentence: show me flights from denver to dc on wednesday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

```
            precision    recall  f1-score   support

        1       1.00      1.00      1.00         2
        2       1.00      1.00      1.00         3
        3       1.00      1.00      1.00         2
        4       1.00      1.00      1.00         1
        6       1.00      1.00      1.00         1

 accuracy                          1.00         9
 macro avg      1.00      1.00      1.00         9
 weighted avg    1.00      1.00      1.00         9
```

Sentence: please give me the flights from san francisco to washington dc
True tags: INTJ VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

```
            precision    recall  f1-score   support

        1       1.00      1.00      1.00         4
        2       1.00      1.00      1.00         2
        3       1.00      1.00      1.00         1
```

	precision	recall	f1-score	support
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: show me the prices of all flights from atlanta to washington dc
True tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the latest flight on wednesday going from atlanta to washington dc
True tags: PRON AUX DET ADJ NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.88	0.85	13
weighted avg	0.95	0.92	0.89	13

Sentence: list flights from toronto to washington dc saturday am

True tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to see the flights from atlanta to washington dc
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.96	0.88	0.85	12
weighted avg	0.94	0.92	0.88	12

Sentence: i <unk> sorry i want to book a flight from atlanta to denver colorado
True tags: PRON AUX ADJ PRON VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PRON VERB VERB VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
accuracy			0.86	14
macro avg	0.94	0.83	0.81	14
weighted avg	0.93	0.86	0.84	14

Sentence: i would like a list of round trip flights between indianapolis and orlando florida for the twenty seventh and the twenty eighth of december
True tags: PRON AUX VERB DET NOUN ADP NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN ADP DET NUM ADJ CCONJ DET NUM ADJ ADP NOUN
Predicted tags: PRON AUX VERB DET VERB ADP NOUN NOUN NOUN ADP PROPN PROPN CCONJ ADP ADP DET ADJ ADJ ADJ DET ADJ ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	0.33	0.33	3
2	0.80	1.00	0.89	4
3	1.00	0.60	0.75	5
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	0.40	1.00	0.57	2
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	0.00	0.00	0.00	2
accuracy			0.67	24
macro avg	0.70	0.69	0.62	24
weighted avg	0.73	0.67	0.63	24

Sentence: may i have a listing of flights on monday from minneapolis to long beach california please
True tags: AUX PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN INTJ
Predicted tags: PROPN PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.96	0.75	0.72	16

weighted avg   0.92   0.88   0.82   16

Sentence: please give all flights from dallas to oakland california monday
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.92	0.83	0.78	10
weighted avg	0.95	0.90	0.87	10

Sentence: on tuesday the twenty third flights from philadelphia to san francisco on american airlines
True tags: ADP NOUN DET NUM ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN DET NOUN ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.94	0.83	0.80	14
weighted avg	0.95	0.93	0.90	14

Sentence: what is the cheapest first class fare from cleveland to miami on us air on february twenty fourth
True tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NUM ADJ
Predicted tags: PRON AUX DET NOUN ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	0.50	1.00	0.67	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.33	0.50	3
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.83	18
macro avg	0.94	0.79	0.77	18
weighted avg	0.92	0.83	0.81	18

Sentence: cheapest round trip fare from or indianapolis to orlando on december twenty fifth
True tags: ADJ NOUN NOUN NOUN ADP CCONJ PROPN ADP PROPN ADP NOUN NUM ADJ
Predicted tags: NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	4
7	1.00	0.00	0.00	2
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.69	13
macro avg	0.86	0.50	0.41	13
weighted avg	0.82	0.69	0.58	13

Sentence: i would like to fly from dallas to denver on the morning of august twenty seventh leaving at <unk>
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN NUM ADJ VERB ADP NUM
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN NOUN NOUN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.83	1.00	0.91	5
3	0.50	1.00	0.67	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1

	accuracy		0.79	19
macro avg	0.90	0.70	0.64	19
weighted avg	0.87	0.79	0.71	19

Sentence: give me the flights from indianapolis to orlando on december twenty seventh and twenty eighth
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NUM ADJ CCONJ NUM ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN CCONJ ADP
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	0.40	1.00	0.57	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
9	1.00	0.00	0.00	2
10	0.00	0.00	0.00	1

	accuracy		0.67	15
macro avg	0.79	0.67	0.60	15
weighted avg	0.80	0.67	0.58	15

Sentence: i would like to book a flight going from tampa to seattle on may twenty sixth i would like to stop in milwaukee on the way
True tags: PRON AUX VERB PART VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN NUM ADJ PRON AUX VERB PART VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN PROPN PRON AUX VERB ADP VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	3
2	0.71	1.00	0.83	5
3	0.67	0.67	0.67	3
4	1.00	0.80	0.89	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
12	1.00	0.00	0.00	2

	accuracy		0.77	26
macro avg	0.89	0.65	0.61	26
weighted avg	0.85	0.77	0.72	26

Sentence: what is the cheapest one way fare from san francisco to boston on wednesday august twenty first
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM ADJ
Predicted tags: PRON AUX DET NOUN PROPN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	0.57	1.00	0.73	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
accuracy			0.76	17
macro avg	0.92	0.75	0.70	17
weighted avg	0.86	0.76	0.68	17

Sentence: which flights are available from tacoma to san jose in the morning on april twenty second
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP NOUN NUM ADJ
Predicted tags: DET NOUN VERB VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	4
3	0.67	0.67	0.67	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	2
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.69	16
macro avg	0.78	0.58	0.43	16
weighted avg	0.86	0.69	0.64	16

Sentence: list all round trip flights between indianapolis and orlando on the twenty seventh of december

True tags: VERB DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN ADP DET NUM ADJ ADP NOUN
Predicted tags: VERB DET NOUN NOUN NOUN ADP PROPN PROPN CCONJ ADP DET NOUN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.50	0.50	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
10	0.00	0.00	0.00	1
accuracy			0.73	15
macro avg	0.77	0.56	0.54	15
weighted avg	0.78	0.73	0.68	15

Sentence: what is hp
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: define airline us
True tags: VERB NOUN PROPN
Predicted tags: DET NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	0.00	1.00	0.00	0
accuracy			0.67	3
macro avg	0.75	0.75	0.50	3
weighted avg	1.00	0.67	0.67	3

Sentence: code ff

True tags: NOUN PROPN
Predicted tags: NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.50	1.00	0.67	1
accuracy			0.50	2
macro avg	0.75	0.50	0.33	2
weighted avg	0.75	0.50	0.33	2

Sentence: from las vegas to new york a nonstop twa and fare
True tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN PROPN CCONJ NOUN
Predicted tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN NOUN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	0.80	0.80	5
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.89	0.76	0.72	11
weighted avg	0.85	0.82	0.78	11

Sentence: airline that stands for dl
True tags: NOUN ADP VERB ADP PROPN
Predicted tags: NOUN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: list round trip flights between boston and oakland using twa
True tags: VERB NOUN NOUN NOUN ADP PROPN CCONJ PROPN VERB PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN PROPN PROPN PROPN PROPN

Classification Report:
```
          precision    recall  f1-score   support

       1       0.60      1.00      0.75         3
       2       1.00      1.00      1.00         1
       3       1.00      1.00      1.00         3
       4       1.00      0.50      0.67         2
      10       1.00      0.00      0.00         1

accuracy                           0.80        10
macro avg       0.92      0.70      0.68        10
weighted avg    0.88      0.80      0.76        10
```

Sentence: i <unk> like a twa flight from las vegas to new york nonstop
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Predicted tags: PRON AUX VERB DET DET NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:
```
          precision    recall  f1-score   support

       1       1.00      0.80      0.89         5
       2       1.00      1.00      1.00         2
       3       1.00      1.00      1.00         2
       4       1.00      1.00      1.00         1
       5       0.50      1.00      0.67         1
       6       1.00      1.00      1.00         1
       8       1.00      1.00      1.00         1

accuracy                           0.92        13
macro avg       0.93      0.97      0.94        13
weighted avg    0.96      0.92      0.93        13
```

Sentence: what airline is <unk>
True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN PROPN PROPN
Classification Report:
```
          precision    recall  f1-score   support

       1       0.50      1.00      0.67         1
       3       1.00      1.00      1.00         1
       5       1.00      0.00      0.00         1
       6       0.00      1.00      0.00         0
       8       1.00      0.00      0.00         1

accuracy                           0.50         4
macro avg       0.70      0.60      0.33         4
weighted avg    0.88      0.50      0.42         4
```

Sentence: what airline is dl

True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
accuracy			0.50	4
macro avg	0.70	0.60	0.33	4
weighted avg	0.88	0.50	0.42	4

Sentence: find a flight between denver and oakland the flight should leave in the afternoon and arrive near 5 pm the flight should also be nonstop
True tags: VERB DET NOUN ADP PROPN CCONJ PROPN DET NOUN AUX VERB ADP DET NOUN CCONJ VERB ADP NUM NOUN DET NOUN AUX ADV AUX NOUN
Predicted tags: VERB DET NOUN ADP PROPN PROPN PROPN DET NOUN NOUN PROPN ADP DET NOUN NOUN NOUN NOUN NOUN NOUN NOUN DET NOUN NOUN NOUN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.40	1.00	0.57	2
2	1.00	0.67	0.80	3
3	0.46	1.00	0.63	6
4	1.00	0.33	0.50	3
5	1.00	1.00	1.00	4
8	1.00	0.00	0.00	3
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	2
11	1.00	0.00	0.00	1
accuracy			0.60	25
macro avg	0.87	0.44	0.39	25
weighted avg	0.82	0.60	0.51	25

Sentence: i need a flight on american airlines from miami to chicago that arrives around 5 pm
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4

	precision	recall	f1-score	support
2	1.00	1.00	1.00	5
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.94	16
macro avg	0.95	0.86	0.83	16
weighted avg	0.96	0.94	0.91	16

Sentence: flights from kansas city to cleveland on wednesday arriving before 5 pm
True tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.60	1.00	0.75	3
4	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.92	0.60	0.55	12
weighted avg	0.90	0.83	0.77	12

Sentence: what flights depart baltimore on friday and arrive in san francisco by 8 pm
True tags: DET NOUN VERB PROPN ADP NOUN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN
Predicted tags: PRON NOUN VERB VERB ADP NOUN NOUN VERB ADP PROPN PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	3
3	0.60	1.00	0.75	3
4	0.67	1.00	0.80	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.71	14
macro avg	0.78	0.58	0.42	14
weighted avg	0.87	0.71	0.66	14

Sentence: i <unk> like a nonstop flight from atlanta to baltimore that <unk> in around 7 pm
True tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP VERB ADP ADP NUM NOUN
Predicted tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.94	0.85	0.82	16
weighted avg	0.94	0.88	0.86	16

Sentence: what nonstop flights between boston and washington arrive after 5 <unk> pm
True tags: DET NOUN NOUN ADP PROPN CCONJ PROPN VERB ADP NUM ADV NOUN
Predicted tags: PRON NOUN NOUN ADP PROPN PROPN PROPN VERB ADP NOUN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	2
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.67	12
macro avg	0.81	0.56	0.39	12
weighted avg	0.85	0.67	0.58	12

Sentence: all flights pittsburgh to baltimore on thursday arrival by 10 am
True tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NOUN
Predicted tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN NOUN
Classification Report:

```
              precision    recall  f1-score   support

         1       1.00      1.00      1.00         2
         2       1.00      0.67      0.80         3
         3       0.67      1.00      0.80         4
         5       1.00      1.00      1.00         1
         9       1.00      0.00      0.00         1

  accuracy                           0.82        11
 macro avg       0.93      0.73      0.72        11
weighted avg     0.88      0.82      0.78        11
```

Sentence: show me all flights direct and connecting from boston to pittsburgh that arrive in pittsburgh before 10 am
True tags: VERB PRON DET NOUN ADJ CCONJ VERB ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN PROPN PROPN VERB ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP PROPN NOUN
Classification Report:

```
              precision    recall  f1-score   support

         1       0.50      1.00      0.67         3
         2       1.00      1.00      1.00         5
         3       1.00      1.00      1.00         2
         4       1.00      1.00      1.00         3
         5       1.00      1.00      1.00         1
         6       1.00      1.00      1.00         1
         7       1.00      0.00      0.00         1
         9       1.00      0.00      0.00         1
        10       1.00      0.00      0.00         1

  accuracy                           0.83        18
 macro avg       0.94      0.67      0.63        18
weighted avg     0.92      0.83      0.78        18
```

Sentence: cleveland to miami on wednesday arriving before 4 pm
True tags: PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Predicted tags: ADP ADP PROPN ADP NOUN NOUN ADP VERB NOUN
Classification Report:

```
              precision    recall  f1-score   support

         1       1.00      0.50      0.67         2
         2       0.75      1.00      0.86         3
         3       0.67      1.00      0.80         2
         4       0.00      0.00      0.00         1
         9       1.00      0.00      0.00         1

  accuracy                           0.67         9
 macro avg       0.68      0.50      0.46         9
weighted avg     0.73      0.67      0.61         9
```

Sentence: show me airlines between boston and san francisco
True tags: VERB PRON NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON VERB ADP PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	1
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.88	0.67	0.59	8
weighted avg	0.84	0.75	0.65	8

Sentence: show me the airlines that fly from san francisco to boston
True tags: VERB PRON DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what airlines fly from boston to denver
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7

	precision	recall	f1-score	support
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.86	0.86	7

Sentence: what airlines have flights from baltimore to seattle
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.78	0.67	0.47	8
weighted avg	0.92	0.75	0.70	8

Sentence: what airlines have flights from boston to philadelphia that leave before 630 am
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP VERB ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	0.50	0.50	0.50	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.75	0.64	0.48	13
weighted avg	0.87	0.77	0.74	13

Sentence: are there any airlines that have flights from boston to philadelphia that leave before 630 am
True tags: VERB PRON DET NOUN ADP VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: AUX PRON DET NOUN ADP VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	0.67	0.67	0.67	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.83	0.83	0.71	16
weighted avg	0.94	0.88	0.88	16

Sentence: show me airlines that have flights between toronto and detroit between detroit and <unk> louis and between <unk> louis and toronto
True tags: VERB PRON NOUN ADP VERB NOUN ADP PROPN CCONJ PROPN ADP PROPN CCONJ PROPN PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Predicted tags: VERB PRON VERB ADP VERB NOUN ADP PROPN PROPN CCONJ ADP PROPN CCONJ CCONJ PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.86	0.75	0.80	8
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
10	0.60	0.75	0.67	4
accuracy			0.81	21
macro avg	0.85	0.83	0.82	21
weighted avg	0.84	0.81	0.81	21

Sentence: which airlines fly between boston and baltimore
True tags: DET NOUN VERB ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.94	0.83	0.80	7

weighted avg   0.90   0.86   0.80   7

Sentence: does any airline have an early afternoon flight from boston to pittsburgh
True tags: AUX DET NOUN VERB DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN VERB NOUN NOUN NOUN NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	3
4	0.00	0.00	0.00	1
5	1.00	0.00	0.00	2
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.58	12
macro avg	0.74	0.43	0.35	12
weighted avg	0.74	0.58	0.47	12

Sentence: please show me airlines with flights from philadelphia to dallas
True tags: INTJ VERB PRON NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB PRON VERB ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	0.50	0.67	2
4	0.33	1.00	0.50	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.89	0.75	0.69	10
weighted avg	0.93	0.80	0.78	10

Sentence: which airlines fly from boston to san francisco
True tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: which airlines have flights between charlotte and newark
True tags: DET NOUN VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.94	0.83	0.80	8
weighted avg	0.92	0.88	0.82	8

Sentence: show me all flights from san francisco to new york nonstop
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me nonstop flights from toronto to <unk> petersburg
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all round trip flights from miami to new york nonstop
True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: nonstop flights seattle to kansas city
True tags: NOUN NOUN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2
accuracy			0.83	6
macro avg	0.89	0.89	0.87	6
weighted avg	0.89	0.83	0.83	6

Sentence: i want to fly from atlanta to philadelphia nonstop
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN
Predicted tags: PRON VERB ADP VERB ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.94	0.83	0.80	9
weighted avg	0.93	0.89	0.84	9

Sentence: what is the earliest nonstop flight from washington to san francisco
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: please list nonstop flights from las vegas to new york on america west
True tags: INTJ VERB NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB VERB VERB NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.83	0.91	6
2	1.00	1.00	1.00	3
3	0.50	0.50	0.50	2
4	0.33	1.00	0.50	1
13	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.77	0.67	0.58	13
weighted avg	0.87	0.77	0.77	13

Sentence: show me first class round trip flights from new york to miami i want the cheapest first class fare please
True tags: VERB PRON ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET ADJ ADJ NOUN NOUN INTJ
Predicted tags: VERB PRON PRON NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET NOUN NOUN NOUN NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	6
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	0.67	1.00	0.80	2
7	1.00	0.00	0.00	3
13	1.00	0.00	0.00	1
accuracy			0.80	20
macro avg	0.92	0.75	0.70	20
weighted avg	0.87	0.80	0.72	20

Sentence: show me which flights from san francisco to pittsburgh on a monday are first class
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN AUX ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN NOUN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.93	0.75	0.71	15
weighted avg	0.91	0.87	0.81	15

Sentence: give me flights from baltimore to denver on united that offer first class
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN ADP ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.80	1.00	0.89	4
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	0.00	1.00	0.00	0
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.83	0.81	0.67	13
weighted avg	0.94	0.85	0.84	13

Sentence: first class flights pittsburgh to newark monday morning
True tags: ADJ NOUN NOUN PROPN ADP PROPN NOUN NOUN
Predicted tags: DET NOUN NOUN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: first class fares from dallas to baltimore please
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN INTJ
Predicted tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.78	0.67	0.47	8
weighted avg	0.92	0.75	0.70	8

Sentence: show me all united airlines first class flights
True tags: VERB PRON DET PROPN PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET NOUN PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.50	0.50	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.86	0.75	0.72	8
weighted avg	0.79	0.75	0.70	8

Sentence: first class price san francisco pittsburgh round trip
True tags: ADJ NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Predicted tags: DET NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.75	0.75	0.50	8
weighted avg	1.00	0.88	0.88	8

Sentence: how much is a first class ticket from baltimore to san francisco
True tags: ADV ADV AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB VERB AUX DET DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.75	12
macro avg	0.81	0.75	0.58	12
weighted avg	0.96	0.75	0.72	12

Sentence: first class american flight from philadelphia to dallas on wednesday
True tags: ADJ NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: DET NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support

	1.00	1.00	1.00	3
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1

accuracy			0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: show flights first class on american airlines between dallas and philadelphia
True tags: VERB NOUN ADJ NOUN ADP PROPN PROPN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1

accuracy			0.82	11
macro avg	0.91	0.67	0.61	11
weighted avg	0.87	0.82	0.74	11

Sentence: what are the first class fares from dallas to baltimore
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1

accuracy			0.90	10
macro avg	0.93	0.86	0.81	10
weighted avg	0.95	0.90	0.87	10

Sentence: show me one way flights from tampa to <unk> louis departing before 10 am first class

True tags: VERB PRON NUM NOUN NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN ADJ NOUN
Predicted tags: VERB PRON VERB NOUN NOUN ADP PROPN ADP PROPN PROPN VERB ADP NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	4
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	2
accuracy			0.81	16
macro avg	0.90	0.71	0.66	16
weighted avg	0.88	0.81	0.74	16

Sentence: what flights leave san francisco on monday night and arrive at atlanta later in the evening
True tags: DET NOUN VERB PROPN PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN ADJ ADP DET NOUN
Predicted tags: PRON NOUN VERB PROPN PROPN ADP NOUN NOUN VERB VERB ADP PROPN PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	0.67	1.00	0.80	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.81	16
macro avg	0.80	0.69	0.54	16
weighted avg	0.91	0.81	0.78	16

Sentence: please list all flights into denver before noon on united airlines and northwest airlines
True tags: INTJ VERB DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN CCONJ PROPN PROPN
Predicted tags: VERB VERB DET NOUN NOUN PROPN ADP VERB ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	0.67	0.80	3
3	0.50	0.50	0.50	2
4	0.33	1.00	0.50	1
5	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.71	14
macro avg	0.81	0.60	0.53	14
weighted avg	0.82	0.71	0.67	14

Sentence: what are the coach fares for flights from pittsburgh to denver
True tags: PRON AUX DET PROPN NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.94	0.94	0.93	11
weighted avg	0.94	0.91	0.91	11

Sentence: what are the flights on tuesday october first from atlanta to baltimore
True tags: PRON AUX DET NOUN ADP NOUN PROPN ADJ ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.83	12
macro avg	0.93	0.81	0.78	12
weighted avg	0.92	0.83	0.81	12

Sentence: what are the coach fares from la to charlotte monday morning
True tags: PRON AUX DET PROPN NOUN ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	2
3	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.96	0.94	0.94	11
weighted avg	0.93	0.91	0.91	11

Sentence: show me dallas ground transport
True tags: VERB PRON PROPN NOUN NOUN
Predicted tags: VERB PRON VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
accuracy			0.80	5
macro avg	0.88	0.75	0.67	5
weighted avg	0.90	0.80	0.73	5

Sentence: show me ground transportation in denver
True tags: VERB PRON NOUN NOUN ADP PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what ground transport is available in minneapolis
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX AUX ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
accuracy			0.71	7
macro avg	0.79	0.71	0.52	7
weighted avg	0.93	0.71	0.67	7

Sentence: please show me ground transportation in denver
True tags: INTJ VERB PRON NOUN NOUN ADP PROPN
Predicted tags: VERB VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.92	0.83	0.78	7
weighted avg	0.93	0.86	0.81	7

Sentence: what kind of ground transportation is there in dallas
True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN
Predicted tags: PRON AUX ADP NOUN NOUN PROPN DET ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	0.67	0.80	3
4	1.00	0.00	0.00	1
5	0.00	0.00	0.00	1
6	0.00	0.00	0.00	1
8	0.00	1.00	0.00	0
accuracy			0.56	9

	precision	recall	f1-score	support
macro avg	0.50	0.52	0.35	9
weighted avg	0.72	0.56	0.56	9

Sentence: what ground transportation is available in charlotte
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.57	7
macro avg	0.76	0.57	0.36	7
weighted avg	0.90	0.57	0.50	7

Sentence: what <unk> the ground transportation like at pittsburgh
True tags: PRON AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.93	0.86	0.81	8
weighted avg	0.94	0.88	0.83	8

Sentence: ground transportation in baltimore
True tags: NOUN NOUN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	4

	precision	recall	f1-score	support
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: what ground transportation is there in dallas
True tags: DET NOUN NOUN AUX PRON ADP PROPN
Predicted tags: PRON NOUN NOUN PROPN AUX ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	0.00	0.00	1
8	0.00	0.00	0.00	1
accuracy			0.57	7
macro avg	0.58	0.50	0.44	7
weighted avg	0.64	0.57	0.52	7

Sentence: what ground transportation is available in baltimore
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.57	7
macro avg	0.76	0.57	0.36	7
weighted avg	0.90	0.57	0.50	7

Sentence: ground transport phoenix
True tags: NOUN NOUN PROPN
Predicted tags: NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: show me information on ground transportation for dallas
True tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like an american flight from toronto to san diego with a stopover in denver please
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN INTJ
Predicted tags: PRON AUX VERB VERB PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.88	17
macro avg	0.92	0.81	0.78	17
weighted avg	0.92	0.88	0.86	17

Sentence: can i go from boston to san francisco with a stopover in denver
True tags: AUX PRON VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN
Predicted tags: VERB PRON PRON ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	0.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
8	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.79	0.71	0.67	13
weighted avg	0.88	0.85	0.82	13

Sentence: please show me flights from boston to denver with a stopover in philadelphia
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN
Predicted tags: VERB VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.93	0.86	0.81	13
weighted avg	0.96	0.92	0.90	13

Sentence: show me the flights from new york to los angeles with stop in milwaukee
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP ADP ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	0.80	1.00	0.89	4
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.97	0.92	0.93	14
weighted avg	0.94	0.93	0.92	14

Sentence: are there any flights from denver to pittsburgh with stops in atlanta

True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.83	12
macro avg	0.82	0.79	0.65	12
weighted avg	0.94	0.83	0.83	12

Sentence: are there any flights from boston to san francisco which stop in denver
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
4	0.00	0.00	0.00	2
5	1.00	1.00	1.00	1
6	1.00	0.50	0.67	2
8	0.00	1.00	0.00	0
accuracy			0.77	13
macro avg	0.64	0.79	0.62	13
weighted avg	0.81	0.77	0.77	13

Sentence: all do you have a flight from washington to boston that stops in philadelphia
True tags: DET AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: DET DET PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.95	0.86	0.83	14
weighted avg	0.95	0.93	0.90	14

Sentence: show me the flights from san diego to newark by way of houston
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: find a flight on american airlines from boston to san francisco that makes a stopover in denver
True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN ADP VERB DET NOUN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN ADP VERB DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: i <unk> looking for a flight that goes from ontario to westchester and stops in chicago

True tags: PRON AUX VERB ADP DET NOUN ADP VERB ADP PROPN ADP
PROPN CCONJ VERB ADP PROPN
Predicted tags: PRON AUX VERB ADP DET NOUN ADP NOUN ADP PROPN ADP
PROPN PROPN CCONJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	5
3	0.50	1.00	0.67	1
4	1.00	0.33	0.50	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	0.00	0.00	0.00	1
accuracy			0.81	16
macro avg	0.78	0.79	0.75	16
weighted avg	0.86	0.81	0.80	16

Sentence: list the flights from philadelphia to san francisco via dallas
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN PROPN
PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.96	0.93	0.94	10
weighted avg	0.92	0.90	0.90	10

Sentence: are there any flights from denver to atlanta with stops in pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP
PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN
ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1

	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.83	12
macro avg	0.82	0.79	0.65	12
weighted avg	0.94	0.83	0.83	12

Sentence: i need a flight from baltimore to seattle that stops in minneapolis
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like a flight that leaves on friday from philadelphia to dallas that makes a stop in atlanta
True tags: PRON AUX VERB DET NOUN ADP VERB ADP NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN ADP PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP VERB ADP NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	6
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: list flights from philadelphia to dallas that stop in atlanta
True tags: VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN ADP ADP ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.80	1.00	0.89	4
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
accuracy			0.90	10
macro avg	0.95	0.88	0.89	10
weighted avg	0.92	0.90	0.89	10

Sentence: what is the available ground transportation between san francisco and downtown
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN CCONJ NOUN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.96	0.88	0.85	11
weighted avg	0.94	0.91	0.87	11

Sentence: what ground transportation is there from the airport in atlanta to downtown
True tags: DET NOUN NOUN VERB PRON ADP DET NOUN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN NOUN PROPN AUX ADP DET PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.25	1.00	0.40	1
2	1.00	1.00	1.00	3
3	1.00	0.50	0.67	4
4	1.00	0.00	0.00	1
5	1.00	0.50	0.67	2
6	0.00	0.00	0.00	1
8	0.00	1.00	0.00	0
accuracy			0.58	12

	precision	recall	f1-score	support
macro avg	0.61	0.57	0.39	12
weighted avg	0.85	0.58	0.62	12

Sentence: what flights go from dallas to denver leaving after 3 pm
True tags: DET NOUN VERB ADP PROPN ADP PROPN VERB ADP NUM NOUN
Predicted tags: PRON NOUN NOUN ADP PROPN ADP PROPN PROPN ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	0.00	0.00	0.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.64	11
macro avg	0.62	0.57	0.37	11
weighted avg	0.70	0.64	0.56	11

Sentence: can you list all flights from chicago to <unk> louis that depart after 12 noon
True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP VERB ADP NUM NOUN
Predicted tags: VERB PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP VERB ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.94	0.75	0.71	15
weighted avg	0.93	0.87	0.82	15

Sentence: is there a flight between philadelphia and denver that leaves philadelphia around 2 <unk> in the afternoon
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP VERB PROPN ADP NUM ADV ADP DET NOUN
Predicted tags: AUX PRON DET NOUN ADP PROPN PROPN PROPN ADP VERB PROPN PROPN VERB VERB ADP DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	0.75	0.86	4
3	1.00	1.00	1.00	2
4	0.33	0.50	0.40	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.71	17
macro avg	0.79	0.62	0.50	17
weighted avg	0.85	0.71	0.68	17

Sentence: what flights leaving pittsburgh arrive in denver and leave after say 6 <unk> at night
True tags: DET NOUN VERB PROPN VERB ADP PROPN CCONJ VERB ADP VERB NUM ADV ADP NOUN
Predicted tags: PRON NOUN VERB PROPN VERB ADP PROPN PROPN PROPN ADP PROPN NOUN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.29	1.00	0.44	2
2	1.00	1.00	1.00	3
3	0.50	0.50	0.50	2
4	1.00	0.50	0.67	4
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.53	15
macro avg	0.75	0.44	0.29	15
weighted avg	0.84	0.53	0.50	15

Sentence: dallas to houston after <unk> am
True tags: PROPN ADP PROPN ADP NUM NOUN
Predicted tags: PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
9	1.00	0.00	0.00	1
accuracy			0.83	6
macro avg	0.92	0.75	0.70	6
weighted avg	0.89	0.83	0.77	6

Sentence: is there a flight around 3 pm from charlotte to minneapolis
True tags: VERB PRON DET NOUN ADP NUM NOUN ADP PROPN ADP PROPN
Predicted tags: AUX PRON DET NOUN NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.67	0.80	3
3	0.50	1.00	0.67	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.73	11
macro avg	0.81	0.71	0.56	11
weighted avg	0.91	0.73	0.70	11

Sentence: i like to see the information for flights from pittsburgh to san francisco leaving pittsburgh after 12 pm
True tags: PRON VERB PART VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB PROPN ADP NUM NOUN
Predicted tags: PRON VERB VERB VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	0.60	1.00	0.75	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.83	18
macro avg	0.92	0.72	0.68	18
weighted avg	0.89	0.83	0.79	18

Sentence: a listing of all flights from boston to baltimore before 10 am on thursday

True tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN

Predicted tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN NOUN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.93	0.80	0.76	14
weighted avg	0.95	0.93	0.90	14

Sentence: i <unk> like a flight from san diego to toronto on alaska airlines leaving around 1 pm

True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN

Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN VERB VERB NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	0.60	0.75	5
2	1.00	0.75	0.86	4
3	0.40	1.00	0.57	2
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.76	17
macro avg	0.88	0.79	0.75	17
weighted avg	0.89	0.76	0.76	17

Sentence: i want a flight from atlanta to washington that leaves after 3 pm

True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN

Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2

	precision	recall	f1-score	support
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.95	0.86	0.83	13
weighted avg	0.95	0.92	0.89	13

Sentence: list all flights going from boston to atlanta on wednesday after 6 <unk> pm on wednesday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP NOUN ADP NOUN PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	0.67	1.00	0.80	4
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.81	16
macro avg	0.90	0.64	0.61	16
weighted avg	0.88	0.81	0.76	16

Sentence: i need flight information for a flight departing from cleveland to milwaukee wednesday after 6 pm
True tags: PRON VERB NOUN NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP DET NOUN NOUN ADP PROPN ADP PROPN NOUN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.71	1.00	0.83	5
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.96	0.79	0.79	16
weighted avg	0.91	0.88	0.84	16

Sentence: what flights go from boston to denver before 10 am
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: PRON NOUN NOUN ADP PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.70	10
macro avg	0.76	0.57	0.37	10
weighted avg	0.87	0.70	0.62	10

Sentence: list all flights from boston to atlanta after 6 <unk> pm on wednesday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.93	0.71	0.67	13
weighted avg	0.92	0.85	0.79	13

Sentence: i <unk> looking for flights from pittsburgh to philadelphia leaving before 9 am
True tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Predicted tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	0.80	1.00	0.89	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.97	0.86	0.84	13
weighted avg	0.94	0.92	0.89	13

Sentence: list all flights going from boston to atlanta before 7 am on thursday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Predicted tags: VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP ADP NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.80	1.00	0.89	4
3	0.75	1.00	0.86	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.92	0.75	0.74	13
weighted avg	0.88	0.85	0.80	13

Sentence: i need flight information for flights departing from cleveland to milwaukee on wednesday after 5 pm
True tags: PRON VERB NOUN NOUN ADP NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN NOUN ADP PROPN ADP PROPN ADP NOUN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	0.71	1.00	0.83	5
4	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.95	0.75	0.75	16
weighted avg	0.91	0.88	0.84	16

Sentence: can you find me another flight from cincinnati to new york on saturday before 6 pm
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NUM NOUN
Predicted tags: VERB PRON PRON PRON NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.60	1.00	0.75	3
4	0.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.67	1.00	0.80	2
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.75	16
macro avg	0.78	0.50	0.44	16
weighted avg	0.82	0.75	0.68	16

Sentence: i would like a flight from san francisco to pittsburgh on friday morning after 10 <unk>
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NUM ADV
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.94	0.78	0.75	16
weighted avg	0.91	0.88	0.82	16

Sentence: list all flights going from boston to atlanta before 5 <unk> am on thursday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP NOUN PROPN NOUN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	4
3	0.60	1.00	0.75	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.79	14
macro avg	0.90	0.64	0.60	14
weighted avg	0.87	0.79	0.73	14

Sentence: what is the last flight from baltimore to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what <unk> the latest flight from san jose to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the earliest flight from pittsburgh to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show first flight from philadelphia to dallas
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.90	0.80	0.73	7
weighted avg	0.93	0.86	0.81	7

Sentence: what <unk> the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.89	9

| | macro avg | 0.93 | 0.86 | 0.81 | 9 |
| | weighted avg | 0.94 | 0.89 | 0.85 | 9 |

Sentence: what is the shortest flight from milwaukee to <unk> petersburg
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: shortest evening flight from tampa to cincinnati
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.80	0.80	0.60	7
weighted avg	1.00	0.86	0.86	7

Sentence: what is the earliest flight you have leaving boston heading to philadelphia
True tags: PRON AUX DET ADJ NOUN PRON VERB VERB PROPN VERB ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN PROPN VERB VERB PROPN ADP ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	0.50	0.67	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.83	12
macro avg	0.90	0.90	0.87	12
weighted avg	0.90	0.83	0.83	12

Sentence: what is the earliest flight from boston to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: flights from denver to westchester county new york weekdays
True tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the last flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest flight leaving denver going to boston
True tags: PRON AUX DET ADJ NOUN VERB PROPN VERB ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.80	10
macro avg	0.90	0.88	0.81	10
weighted avg	0.88	0.80	0.73	10

Sentence: what is the earliest flight from ontario to memphis
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the last flight leaving san francisco going to washington on friday
True tags: PRON AUX DET ADJ NOUN VERB PROPN PROPN VERB ADP PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN NOUN PROPN PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.85	13
macro avg	0.93	0.88	0.83	13
weighted avg	0.89	0.85	0.78	13

Sentence: what is the earliest morning flight from san francisco to boston
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11

```
      macro avg     1.00     1.00     1.00      11
   weighted avg       1.00     1.00     1.00       11
```

Sentence: what <unk> the earliest flight from dallas to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.93	0.86	0.81	9
weighted avg	0.94	0.89	0.85	9

Sentence: i <unk> like to find the earliest flight possible from san francisco to atlanta
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADJ ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.67	1.00	0.80	2
3	0.33	1.00	0.50	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	2
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.79	14
macro avg	0.89	0.78	0.70	14
weighted avg	0.90	0.79	0.72	14

Sentence: what is the latest evening flight leaving san francisco for washington
True tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the first flight from boston to atlanta and what is the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET DET NOUN ADP PROPN ADP PROPN PROPN PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
5	0.67	1.00	0.80	2
6	1.00	1.00	1.00	2
7	1.00	0.50	0.67	2
8	1.00	1.00	1.00	2
10	1.00	0.00	0.00	1
accuracy			0.89	19
macro avg	0.93	0.81	0.79	19
weighted avg	0.92	0.89	0.87	19

Sentence: what <unk> the cheapest one way ticket from baltimore to atlanta
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN PROPN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.82	11
macro avg	0.92	0.75	0.70	11
weighted avg	0.88	0.82	0.75	11

Sentence: what <unk> the cheapest round trip fare between boston and washington
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN NOUN NOUN NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.93	0.75	0.71	11
weighted avg	0.87	0.82	0.74	11

Sentence: what is the cheapest round trip fare between boston and san francisco
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: PRON AUX DET NOUN NOUN NOUN NOUN ADP PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.94	0.75	0.71	12
weighted avg	0.88	0.83	0.76	12

Sentence: what is the cheapest round trip fare from atlanta to pittsburgh
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN NOUN NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.96	0.86	0.84	11
weighted avg	0.93	0.91	0.87	11

Sentence: what is the cheapest fare from baltimore to dallas in any class
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.83	12
macro avg	0.90	0.79	0.75	12
weighted avg	0.89	0.83	0.79	12

Sentence: what is the cheapest one way fare from boston to washington
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN PROPN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1

```
    accuracy                    0.82        11
   macro avg       0.92    0.75    0.70       11
weighted avg       0.88    0.82    0.75        11
```

Sentence: i <unk> interested in the cheapest fare from washington to fort worth
True tags: PRON AUX VERB ADP DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX AUX ADP DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

```
          precision    recall  f1-score   support

       1       1.00      1.00      1.00         3
       2       1.00      1.00      1.00         3
       3       0.50      1.00      0.67         1
       4       1.00      0.00      0.00         1
       5       1.00      1.00      1.00         1
       6       1.00      1.00      1.00         1
       7       1.00      0.00      0.00         1
       8       0.50      1.00      0.67         1

    accuracy                       0.83        12
   macro avg    0.88      0.75      0.67        12
weighted avg    0.92      0.83      0.78        12
```

Sentence: i would like to book a flight from denver to pittsburgh on july fifteenth i <unk> like it to be the cheapest flight
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ PRON AUX VERB PRON PART AUX DET ADJ NOUN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN PRON VERB VERB VERB ADP VERB DET NOUN NOUN
Classification Report:

```
          precision    recall  f1-score   support

       1       1.00      1.00      1.00         2
       2       0.60      1.00      0.75         3
       3       0.60      1.00      0.75         3
       4       0.50      1.00      0.67         3
       5       1.00      1.00      1.00         2
       6       1.00      0.67      0.80         3
       7       1.00      0.00      0.00         2
       8       1.00      0.33      0.50         3
      12       1.00      0.00      0.00         2

    accuracy                       0.70        23
   macro avg    0.86      0.67      0.61        23
weighted avg    0.83      0.70      0.63        23
```

Sentence: what is the cheapest fare from dallas to denver on delta

True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: can you show me the cheapest round trip flights between denver and pittsburgh
True tags: AUX PRON VERB PRON DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON VERB PRON DET NOUN NOUN NOUN NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.88	0.67	0.59	13
weighted avg	0.85	0.77	0.68	13

Sentence: what <unk> the lowest round trip fare from denver to atlanta
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: what is the cheapest flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.93	0.86	0.81	9
weighted avg	0.94	0.89	0.85	9

Sentence: i <unk> like to find the cheapest fare from atlanta to dallas
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.91	0.78	0.72	12
weighted avg	0.90	0.83	0.77	12

Sentence: lowest fare from san francisco to los angeles
True tags: ADJ NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: i <unk> like the lowest fare from denver to pittsburgh
True tags: PRON AUX VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.94	0.88	0.83	10
weighted avg	0.95	0.90	0.87	10

Sentence: okay i <unk> want to know the cheapest fare from atlanta to boston
True tags: INTJ PRON ADV VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN PRON AUX VERB ADP PROPN DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.67	1.00	0.80	2
3	0.33	1.00	0.50	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1

	precision	recall	f1-score	support
8	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.62	13
macro avg	0.79	0.59	0.43	13
weighted avg	0.85	0.62	0.54	13

Sentence: what are the lowest one way fares from atlanta to denver
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.90	0.75	0.68	11
weighted avg	0.89	0.82	0.75	11

Sentence: what is the cheapest one way fare from any city to another
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP DET PROPN ADP DET
Predicted tags: PRON AUX DET NOUN PROPN NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.25	1.00	0.40	1
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
5	1.00	0.33	0.50	3
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.67	12
macro avg	0.86	0.67	0.59	12
weighted avg	0.88	0.67	0.62	12

Sentence: i <unk> like the cheapest cost fare to fort worth from boston

True tags: PRON AUX VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN

Predicted tags: PRON AUX VERB DET NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.96	0.88	0.85	12
weighted avg	0.94	0.92	0.88	12

Sentence: show me the cheapest one way fares from san diego to miami

True tags: VERB PRON DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN

Predicted tags: VERB PRON DET NOUN PROPN NOUN NOUN ADP PROPN PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.93	0.75	0.71	12
weighted avg	0.88	0.83	0.76	12

Sentence: what flights leave philadelphia for dallas and depart before noon on american airlines

True tags: DET NOUN VERB PROPN ADP PROPN CCONJ VERB ADP NOUN ADP PROPN PROPN

Predicted tags: PRON NOUN VERB PROPN ADP PROPN PROPN VERB ADP VERB ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	3
3	1.00	0.50	0.67	2
4	0.67	1.00	0.80	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.78	0.64	0.48	13
weighted avg	0.89	0.77	0.73	13

Sentence: i need a flight from cleveland to dallas that leaves before noon see if too much information
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN VERB ADP ADV ADV NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN NOUN NOUN NOUN VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.80	0.89	5
3	0.50	1.00	0.67	3
4	0.67	0.67	0.67	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.76	17
macro avg	0.88	0.78	0.75	17
weighted avg	0.85	0.76	0.73	17

Sentence: list all flights leaving denver on continental on sunday after 2134
True tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP NUM
Predicted tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.83	0.80	11
weighted avg	0.94	0.91	0.87	11

Sentence: all flights from san francisco to boston leaving before noon
True tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Predicted tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i need a flight from cincinnati to san jose leaving after 6 in the evening
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM ADP DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.96	0.86	0.84	15
weighted avg	0.95	0.93	0.90	15

Sentence: flights from milwaukee to orlando one way
True tags: NOUN ADP PROPN ADP PROPN NUM NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.92	0.75	0.70	7

weighted avg   0.90   0.86   0.80   7

Sentence: i want to fly from baltimore to dallas round trip
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON VERB ADP VERB ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.94	0.83	0.80	10
weighted avg	0.93	0.90	0.86	10

Sentence: hi i want a round trip ticket to dallas
True tags: INTJ PRON VERB DET NOUN NOUN NOUN ADP PROPN
Predicted tags: PROPN PRON VERB DET NOUN NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.93	0.86	0.81	9
weighted avg	0.94	0.89	0.85	9

Sentence: what would be cost of a round trip from pittsburgh to san francisco
True tags: PRON AUX AUX NOUN ADP DET NOUN NOUN ADP PROPN ADP
PROPN PROPN
Predicted tags: PRON AUX AUX VERB ADP DET NOUN NOUN ADP PROPN ADP
PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	2
accuracy			0.92	13
macro avg	0.86	0.95	0.83	13
weighted avg	1.00	0.92	0.95	13

Sentence: show me round trip fares from toronto to detroit on delta northwest us air and united airlines
True tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN PROPN PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.89	1.00	0.94	8
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.94	17
macro avg	0.98	0.83	0.82	17
weighted avg	0.95	0.94	0.91	17

Sentence: give me all the flights from new york to miami round trip
True tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN NOUN NOUN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: how much is a round trip fare from nashville to seattle
True tags: ADV ADV AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.82	11
macro avg	0.86	0.86	0.71	11
weighted avg	1.00	0.82	0.82	11

Sentence: what is the fare going from baltimore to boston one way on november seventh
True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.60	1.00	0.75	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.79	14
macro avg	0.92	0.67	0.62	14
weighted avg	0.87	0.79	0.70	14

Sentence: show me the round trip flights between phoenix and salt lake city
True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.97	0.86	0.84	12
weighted avg	0.93	0.92	0.88	12

Sentence: what is the fare going from baltimore to atlanta one way on november seventh
True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.60	1.00	0.75	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.79	14
macro avg	0.92	0.67	0.62	14
weighted avg	0.87	0.79	0.70	14

Sentence: now i want to see return flights from miami to new york
True tags: ADV PRON VERB PART VERB NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: NOUN PRON VERB ADP VERB VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.67	1.00	0.80	2
3	0.50	0.50	0.50	2
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.75	12
macro avg	0.83	0.64	0.59	12
weighted avg	0.81	0.75	0.68	12

Sentence: do you have an <unk> flight from denver to san francisco
True tags: AUX PRON VERB DET NUM NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON VERB VERB VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.25	1.00	0.40	1
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.73	11
macro avg	0.91	0.62	0.55	11
weighted avg	0.93	0.73	0.67	11

Sentence: i would like to book a flight from chicago to seattle on june fourth
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.94	0.78	0.74	14
weighted avg	0.90	0.86	0.80	14

Sentence: are there any flights from long beach to columbus on wednesday april sixth
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ
Predicted tags: AUX PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.84	0.75	0.61	13
weighted avg	0.94	0.85	0.81	13

Sentence: i <unk> like flights going from boston to atlanta leaving on august sixth in the afternoon
True tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN ADJ ADP DET NOUN
Predicted tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN NOUN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.97	0.88	0.86	16
weighted avg	0.95	0.94	0.91	16

Sentence: i would like to find out what flights there are on friday june eleventh from <unk> petersburg to milwaukee and then from milwaukee to tacoma thank you
True tags: PRON AUX VERB PART VERB ADV DET NOUN PRON VERB ADP NOUN NOUN ADJ ADP PROPN PROPN ADP PROPN CCONJ ADV ADP PROPN ADP PROPN VERB PRON
Predicted tags: PRON AUX VERB ADP VERB VERB PRON NOUN NOUN AUX ADP NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP PROPN ADP PROPN ADP VERB
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	0.71	1.00	0.83	5

	precision	recall	f1-score	support
3	0.60	1.00	0.75	3
4	0.40	0.50	0.44	4
5	1.00	0.00	0.00	1
6	0.50	0.33	0.40	3
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
10	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.63	27
macro avg	0.78	0.44	0.36	27
weighted avg	0.71	0.63	0.54	27

Sentence: i need a flight from chicago to dallas on continental on june fifth
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.96	0.86	0.84	13
weighted avg	0.94	0.92	0.89	13

Sentence: i <unk> like a flight on july ninth from orlando to kansas city in the afternoon
True tags: PRON AUX VERB DET NOUN ADP NOUN ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1

| | | | 8 | 1.00 | 1.00 | 1.00 | 1 |

	precision	recall	f1-score	support
accuracy			0.94	16
macro avg	0.97	0.88	0.86	16
weighted avg	0.95	0.94	0.91	16

Sentence: i <unk> like to arrange a trip to baltimore on january first
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	0.67	1.00	0.80	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.93	0.78	0.73	12
weighted avg	0.89	0.83	0.77	12

Sentence: okay and then from pittsburgh i <unk> like to travel to atlanta on september fourth
True tags: INTJ CCONJ ADV ADP PROPN PRON AUX VERB PART VERB ADP PROPN ADP NOUN ADJ
Predicted tags: NOUN VERB VERB ADP PROPN PRON VERB VERB ADP VERB ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	0.33	1.00	0.50	1
4	0.40	1.00	0.57	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.60	15

| | | macro avg | 0.86 | 0.45 | 0.36 | 15 |
| | | weighted avg | 0.83 | 0.60 | 0.48 | 15 |

Sentence: list the flights from westchester county to denver on june seventh
True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.83	0.80	11
weighted avg	0.94	0.91	0.87	11

Sentence: flights from atlanta august second
True tags: NOUN ADP PROPN NOUN ADJ
Predicted tags: NOUN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	0.50	0.50	0.50	2
7	1.00	0.00	0.00	1
accuracy			0.60	5
macro avg	0.75	0.62	0.54	5
weighted avg	0.70	0.60	0.53	5

Sentence: what are the flights between pittsburgh and baltimore on august tenth
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1

| | 10 | 1.00 | 0.00 | 0.00 | 1 |

```
   accuracy                 0.82      11
  macro avg    0.92   0.75   0.70      11
weighted avg   0.88   0.82   0.75      11
```

Sentence: on april first i need a flight going from phoenix to san diego
True tags: ADP NOUN ADJ PRON VERB DET NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN NOUN PRON VERB DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1

```
   accuracy                 0.85      13
  macro avg    0.93   0.79   0.76      13
weighted avg   0.92   0.85   0.82      13
```

Sentence: show me a list of flights from denver to baltimore on united for august third
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	5
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1

```
   accuracy                 0.93      15
  macro avg    0.96   0.86   0.84      15
weighted avg   0.95   0.93   0.90      15
```

Sentence: what are the flights from san jose to nashville on thursday the twentieth
True tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ

Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.95	0.86	0.83	13
weighted avg	0.95	0.92	0.89	13

Sentence: i need a ticket from nashville to seattle
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: how much does it cost to fly on delta from dallas to baltimore
True tags: ADV ADV AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN
Predicted tags: VERB VERB VERB VERB VERB ADP VERB ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.75	1.00	0.86	3
4	0.33	1.00	0.50	2
6	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1

```
  accuracy                        0.62      13
 macro avg       0.87    0.43    0.34       13
weighted avg     0.84    0.62    0.51       13
```

Sentence: what are the fares for flights from charlotte to newark on tuesday and wednesday
True tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP NOUN CCONJ NOUN
Predicted tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN
Classification Report:

```
             precision    recall  f1-score   support

         1       1.00      1.00      1.00         2
         2       1.00      1.00      1.00         4
         3       0.80      1.00      0.89         4
         5       1.00      1.00      1.00         1
         6       1.00      1.00      1.00         1
         8       1.00      1.00      1.00         1
        10       1.00      0.00      0.00         1

  accuracy                          0.93        14
 macro avg       0.97      0.86      0.84        14
weighted avg     0.94      0.93      0.90        14
```

Sentence: show fares and flights from denver to oakland
True tags: VERB NOUN CCONJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB VERB NOUN ADP PROPN ADP PROPN
Classification Report:

```
             precision    recall  f1-score   support

         1       1.00      1.00      1.00         2
         2       1.00      1.00      1.00         2
         3       1.00      0.50      0.67         2
         4       0.33      1.00      0.50         1
        10       1.00      0.00      0.00         1

  accuracy                          0.75         8
 macro avg       0.87      0.70      0.63         8
weighted avg     0.92      0.75      0.73         8
```

Sentence: what is the airfare between denver and pittsburgh
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN PROPN
Classification Report:

```
             precision    recall  f1-score   support

         1       0.67      1.00      0.80         2
         2       1.00      1.00      1.00         1
         3       1.00      1.00      1.00         1
```

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.95	0.86	0.83	8
weighted avg	0.92	0.88	0.82	8

Sentence: what does it cost to fly from boston to oakland on united airlines
True tags: PRON AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX AUX VERB ADP VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.75	1.00	0.86	3
4	1.00	1.00	1.00	2
6	1.00	0.50	0.67	2
8	0.50	1.00	0.67	1
12	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.88	0.75	0.70	13
weighted avg	0.90	0.85	0.81	13

Sentence: get saturday fares from washington to montreal
True tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.92	0.75	0.70	7
weighted avg	0.90	0.86	0.80	7

Sentence: give me fares from atlanta to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: continental airlines on saturday from chicago to seattle
True tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: does eastern airlines fly between boston and washington
True tags: AUX PROPN PROPN VERB ADP PROPN CCONJ PROPN
Predicted tags: PROPN PROPN PROPN VERB ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.93	0.60	0.56	8
weighted avg	0.83	0.75	0.65	8

Sentence: i would like some information on a flight from denver to san francisco on united airlines
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB VERB NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.93	0.93	0.90	16
weighted avg	0.97	0.94	0.94	16

Sentence: american airlines from denver to milwaukee
True tags: PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i need a flight delta airlines kansas city to salt lake
True tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: list the alaska airlines flights a departing from burbank
True tags: VERB DET PROPN PROPN NOUN DET VERB ADP PROPN
Predicted tags: VERB DET NOUN PROPN NOUN NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	1

	precision	recall	f1-score	support
3	0.25	1.00	0.40	1
4	1.00	0.50	0.67	2
5	1.00	0.50	0.67	2
accuracy			0.67	9
macro avg	0.85	0.73	0.71	9
weighted avg	0.92	0.67	0.72	9

Sentence: give me all the flights from miami to chicago on american airlines
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i <unk> like united airlines flights from denver to baltimore
True tags: PRON AUX VERB PROPN PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB VERB PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.92	0.96	0.92	10
weighted avg	0.95	0.90	0.91	10

Sentence: i <unk> like a flight from new york to los angeles on saturday morning on us air
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: show me the southwest airlines flights from san diego to san francisco
True tags: VERB PRON DET PROPN PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.83	0.91	6
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.92	0.97	0.93	12
weighted avg	0.96	0.92	0.93	12

Sentence: what flights does american airlines have from boston to dallas
True tags: DET NOUN AUX PROPN PROPN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN PROPN PROPN PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
accuracy			0.70	10

	precision	recall	f1-score	support
macro avg	0.81	0.57	0.40	10
weighted avg	0.87	0.70	0.62	10

Sentence: what flights go from chicago to seattle on continental airlines on saturday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.83	12
macro avg	0.78	0.67	0.47	12
weighted avg	0.94	0.83	0.80	12

Sentence: list the flights from dallas to san francisco on american airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights go from chicago to seattle on saturday on continental airlines
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Predicted tags: PRON NOUN NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.83	12
macro avg	0.78	0.67	0.47	12
weighted avg	0.94	0.83	0.80	12

Sentence: show me the flight classes for delta airlines
True tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.50	1.00	0.67	1
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.92	0.92	0.89	8
weighted avg	0.94	0.88	0.88	8

Sentence: please list the flights from cincinnati to burbank on american airlines
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.92	0.83	0.78	11
weighted avg	0.95	0.91	0.88	11

Sentence: show me all the flights from indianapolis to san diego on us air
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i would like to fly delta airlines from atlanta to pittsburgh
True tags: PRON AUX VERB PART VERB PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.83	0.80	11
weighted avg	0.94	0.91	0.87	11

Sentence: what flights are available wednesday afternoon from denver to san francisco
True tags: DET NOUN AUX ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN AUX AUX NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
accuracy			0.82	11
macro avg	0.79	0.71	0.52	11

weighted avg   0.95   0.82   0.79   11

Sentence: show me all flights to philadelphia in the evening
True tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: flights from chicago to denver on continental on saturday morning
True tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights from san jose to dallas on friday afternoon
True tags: DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: what are the flights and prices from la to charlotte for monday morning
True tags: PRON AUX DET NOUN CCONJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN NOUN PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.75	0.75	0.75	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.92	0.82	0.79	13
weighted avg	0.87	0.85	0.82	13

Sentence: on friday night i would like a flight from newark to los angeles
True tags: ADP NOUN NOUN PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN NOUN PRON VERB VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.93	0.86	0.81	13
weighted avg	0.96	0.92	0.90	13

Sentence: <unk> paul to kansas city friday night
True tags: PROPN PROPN ADP PROPN PROPN NOUN NOUN
Predicted tags: VERB PROPN ADP PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	0.75	0.67	4
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	2
4	0.00	1.00	0.00	0

		accuracy		0.57	7
accuracy			0.57	7
macro avg	0.65	0.69	0.42	7
weighted avg	0.77	0.57	0.52	7

Sentence: show me the flights from philadelphia to baltimore in the morning
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights from chicago to denver in the morning
True tags: DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.80	0.90	0.73	9
weighted avg	1.00	0.89	0.93	9

Sentence: now i need a flight from detroit to san diego leaving tuesday evening
True tags: ADV PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB NOUN NOUN
Predicted tags: NOUN PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	0.75	1.00	0.86	3

	precision	recall	f1-score	support
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.96	0.86	0.84	13
weighted avg	0.94	0.92	0.89	13

Sentence: how about flights from dallas to atlanta on wednesday morning
True tags: ADV ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: show me the evening flights from baltimore to atlanta
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: which flights go from pittsburgh to atlanta in the evening
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: DET NOUN NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
accuracy			0.90	10
macro avg	0.93	0.80	0.76	10
weighted avg	0.93	0.90	0.86	10

Sentence: from toronto to atlanta in the afternoon
True tags: ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need to fly from pittsburgh to oakland and depart in the afternoon
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN CCONJ VERB ADP DET NOUN
Predicted tags: PRON VERB ADP VERB ADP PROPN ADP PROPN PROPN VERB ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.93	0.75	0.71	13
weighted avg	0.89	0.85	0.78	13

Sentence: i need a flight from los angeles to pittsburgh on monday afternoon
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the evening flights from atlanta to boston
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i need to know what flights leave atlanta on sunday evening and arrive in baltimore
True tags: PRON VERB PART VERB DET NOUN VERB PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN
Predicted tags: PRON VERB ADP VERB DET NOUN NOUN PROPN ADP NOUN NOUN NOUN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	0.60	1.00	0.75	3
4	1.00	0.75	0.86	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.91	0.72	0.68	15

weighted avg   0.88   0.80   0.75   15

Sentence: what flights are there from boston to denver on monday morning
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.82	11
macro avg	0.79	0.71	0.52	11
weighted avg	0.95	0.82	0.79	11

Sentence: give me morning flights from atlanta to baltimore
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flights from atlanta to dallas in the afternoon
True tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8

weighted avg   1.00   1.00   1.00   8

Sentence: morning flights from pittsburgh to atlanta on wednesday
True tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what are the flights dallas to boston on monday morning
True tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: am flights from atlanta to philadelphia
True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: tampa to charlotte sunday morning
True tags: PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON ADP NOUN NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	2
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2
6	0.00	1.00	0.00	0
accuracy			0.60	5
macro avg	0.67	0.75	0.45	5
weighted avg	0.87	0.60	0.52	5

Sentence: show flights saturday evening from <unk> louis to burbank
True tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
accuracy			0.89	9
macro avg	0.88	0.92	0.87	9
weighted avg	0.94	0.89	0.90	9

Sentence: what pm flights are available from philadelphia to pittsburgh
True tags: DET NOUN NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN VERB VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.75	0.62	0.38	9
weighted avg	1.00	0.67	0.67	9

Sentence: what are the flights from milwaukee to orlando on wednesday night
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from san francisco to dallas
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show flights from san francisco to denver on a thursday
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: from las vegas to phoenix
True tags: ADP PROPN PROPN ADP PROPN
Predicted tags: ADP PROPN PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: show me all flights from san diego to los angeles
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights from kansas city to minneapolis
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list flights from las vegas to phoenix
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: flights from las vegas to montreal
True tags: NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i am also interested in a flight that <unk> from <unk> louis to las vegas
True tags: PRON AUX ADV VERB ADP DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON PRON VERB AUX ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	0.00	0.00	0.00	2
5	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
8	0.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.73	15
macro avg	0.66	0.62	0.57	15
weighted avg	0.71	0.73	0.68	15

Sentence: <unk> petersburg to detroit
True tags: PROPN PROPN ADP PROPN
Predicted tags: VERB PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
accuracy			0.75	4
macro avg	0.67	0.89	0.60	4
weighted avg	1.00	0.75	0.85	4

Sentence: show me flights from san francisco to minneapolis
True tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights from salt lake city to las vegas
True tags: DET NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.80	0.80	0.60	9
weighted avg	1.00	0.89	0.89	9

Sentence: show me all flights from san francisco to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: do you have flights from <unk> petersburg to toronto on monday
True tags: AUX PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.92	0.83	0.78	11
weighted avg	0.95	0.91	0.88	11

Sentence: what are all the flights on delta in and out of fort worth
True tags: PRON AUX DET DET NOUN ADP PROPN ADP CCONJ ADP ADP PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	0.75	0.86	4
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.94	0.82	0.80	13
weighted avg	0.91	0.85	0.82	13

Sentence: show flights from <unk> petersburg to charlotte
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i <unk> like flight information from dallas fort worth to boston on tuesday
True tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me all flights from san francisco to pittsburgh on friday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: from las vegas to montreal
True tags: ADP PROPN PROPN ADP PROPN

Predicted tags: ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: sunday flights from new york city to las vegas
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please find a flight from kansas city to newark
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB VERB DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.92	0.83	0.78	9
weighted avg	0.94	0.89	0.85	9

Sentence: i want to go from san francisco to denver
True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB ADP VERB ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.67	1.00	0.80	2

	precision	recall	f1-score	support
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.93	0.80	0.76	9
weighted avg	0.93	0.89	0.84	9

Sentence: list all flights on continental leaving denver on monday
True tags: VERB DET NOUN ADP PROPN VERB PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.93	0.90	0.89	9
weighted avg	0.93	0.89	0.88	9

Sentence: only show continental flights
True tags: ADV VERB PROPN NOUN
Predicted tags: VERB VERB VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
4	0.33	1.00	0.50	1
11	1.00	0.00	0.00	1
accuracy			0.50	4
macro avg	0.83	0.50	0.38	4
weighted avg	0.83	0.50	0.38	4

Sentence: find a flight on delta from philadelphia to san francisco
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: all delta flights to <unk> if you can
True tags: DET PROPN NOUN ADP NOUN ADP PRON AUX
Predicted tags: DET PROPN NOUN ADP PROPN PROPN VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	0.50	0.67	2
3	1.00	0.50	0.67	2
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.50	8
macro avg	0.76	0.57	0.40	8
weighted avg	0.92	0.50	0.52	8

Sentence: show me all the flights from toronto on nationair
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all the united flights from boston to denver
True tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all the flights on united leaving from boston
True tags: VERB PRON DET DET NOUN ADP PROPN VERB ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.94	0.92	0.91	10
weighted avg	0.93	0.90	0.89	10

Sentence: when are the american flights from phoenix to milwaukee
True tags: ADV AUX DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.86	0.71	0.57	9
weighted avg	1.00	0.78	0.78	9

Sentence: please list all united flights between pittsburgh and baltimore
True tags: INTJ VERB DET PROPN NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB VERB DET VERB NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	1

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	0.33	1.00	0.50	1
5	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.86	0.67	0.60	9
weighted avg	0.81	0.67	0.61	9

Sentence: please list all flights between boston and philadelphia <unk> on sundays
True tags: INTJ VERB DET NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN
Predicted tags: VERB VERB DET NOUN ADP PROPN PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.67	0.57	3
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.64	11
macro avg	0.79	0.60	0.53	11
weighted avg	0.73	0.64	0.58	11

Sentence: list all flights from baltimore to san francisco on friday
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me flights from philadelphia to denver on a monday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

```
          precision    recall  f1-score   support

      1       1.00      1.00      1.00         2
      2       1.00      1.00      1.00         3
      3       1.00      1.00      1.00         2
      4       1.00      1.00      1.00         1
      5       1.00      1.00      1.00         1
      6       1.00      1.00      1.00         1

   accuracy                       1.00        10
  macro avg       1.00      1.00      1.00        10
weighted avg      1.00      1.00      1.00        10
```

Sentence: show me the flights from denver to atlanta on friday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:
```
          precision    recall  f1-score   support

      1       1.00      1.00      1.00         2
      2       1.00      1.00      1.00         3
      3       1.00      1.00      1.00         2
      4       1.00      1.00      1.00         1
      5       1.00      1.00      1.00         1
      6       1.00      1.00      1.00         1

   accuracy                       1.00        10
  macro avg       1.00      1.00      1.00        10
weighted avg      1.00      1.00      1.00        10
```

Sentence: flights that go from oakland to philadelphia on friday
True tags: NOUN ADP VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN ADP VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:
```
          precision    recall  f1-score   support

      1       1.00      1.00      1.00         2
      2       1.00      1.00      1.00         4
      3       1.00      1.00      1.00         2
      4       1.00      1.00      1.00         1

   accuracy                       1.00         9
  macro avg       1.00      1.00      1.00         9
weighted avg      1.00      1.00      1.00         9
```

Sentence: baltimore to philadelphia wednesday
True tags: PROPN ADP PROPN NOUN
Predicted tags: PROPN ADP PROPN NOUN
Classification Report:
```
          precision    recall  f1-score   support
```

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: i <unk> like a flight from montreal to san diego for sunday
True tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights are available friday from philadelphia to oakland
True tags: DET NOUN AUX ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX AUX ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	0.00	0.00	0.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	9
macro avg	0.64	0.64	0.48	9
weighted avg	0.83	0.67	0.67	9

Sentence: i would like to see the flights available from pittsburgh to san francisco for monday

True tags: PRON AUX VERB PART VERB DET NOUN ADJ ADP PROPN ADP
PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN NOUN ADP PROPN ADP
PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.75	1.00	0.86	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.94	0.78	0.74	15
weighted avg	0.91	0.87	0.81	15

Sentence: show me the flights on sunday from tampa to charlotte
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what are all flights from denver to philadelphia on saturday
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights are available from denver to philadelphia on wednesday
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN AUX AUX ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
accuracy			0.80	10
macro avg	0.79	0.71	0.52	10
weighted avg	0.95	0.80	0.77	10

Sentence: i want to go from boston to washington on a saturday
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB ADP VERB ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.96	0.86	0.84	11
weighted avg	0.93	0.91	0.87	11

Sentence: show flights from burbank to <unk> louis on monday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please show me flights from dallas to atlanta on monday
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.92	0.83	0.78	10
weighted avg	0.95	0.90	0.87	10

Sentence: show me the flights from pittsburgh to los angeles on thursday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: i <unk> like a list of the flights from oakland to dallas fort worth on sunday
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	0.67	0.80	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.93	0.95	0.92	16
weighted avg	0.97	0.94	0.94	16

Sentence: show me the flights from boston to pittsburgh on wednesday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: list all flights from nashville to cleveland on sunday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me a flight from tampa to charlotte on sunday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights from denver to san francisco
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what are all the flights available between pittsburgh and dallas fort worth
True tags: PRON AUX DET DET NOUN ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN NOUN ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.91	0.75	0.69	12
weighted avg	0.89	0.83	0.77	12

Sentence: what flights from seattle to salt lake city

True tags: DET NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: what are the flights from memphis to las vegas
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights are there from pittsburgh to los angeles
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.78	9
macro avg	0.79	0.71	0.52	9
weighted avg	0.94	0.78	0.74	9

Sentence: i <unk> looking for a flight from pittsburgh to san francisco
True tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from dallas to san francisco
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what are the flights from boston to san francisco
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9

```
     macro avg      1.00     1.00     1.00        9
weighted avg         1.00     1.00     1.00        9
```

Sentence: what flights do you have leaving boston going to san francisco
True tags: DET NOUN AUX PRON VERB VERB PROPN VERB ADP PROPN
PROPN
Predicted tags: PRON NOUN VERB VERB VERB VERB VERB VERB ADP PROPN
PROPN
Classification Report:

```
          precision    recall  f1-score   support

       1       1.00      0.67      0.80        3
       2       1.00      1.00      1.00        1
       3       1.00      1.00      1.00        1
       4       0.50      1.00      0.67        3
       5       1.00      0.00      0.00        1
       6       0.00      0.00      0.00        1
       8       1.00      0.00      0.00        1

 accuracy                         0.64       11
   macro avg     0.79      0.52      0.50       11
weighted avg      0.77      0.64      0.58       11
```

Sentence: list all flights please from washington to san francisco
True tags: VERB DET NOUN INTJ ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

```
          precision    recall  f1-score   support

       1       1.00      1.00      1.00        3
       2       1.00      1.00      1.00        2
       3       1.00      1.00      1.00        1
       4       0.50      1.00      0.67        1
       5       1.00      1.00      1.00        1
      13       1.00      0.00      0.00        1

 accuracy                         0.89        9
   macro avg     0.92      0.83      0.78        9
weighted avg      0.94      0.89      0.85        9
```

Sentence: list flights between oakland and san francisco
True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN PROPN PROPN
Classification Report:

```
          precision    recall  f1-score   support

       1       0.75      1.00      0.86        3
       2       1.00      1.00      1.00        1
       3       1.00      1.00      1.00        1
       4       1.00      1.00      1.00        1
```

	precision	recall	f1-score	support
10	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.95	0.80	0.77	7
weighted avg	0.89	0.86	0.80	7

Sentence: interested in a flight from washington to fort worth
True tags: VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights are <unk> available between boston and dallas fort worth
True tags: DET NOUN AUX ADV ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: PRON NOUN AUX VERB AUX ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
10	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.64	11
macro avg	0.73	0.60	0.36	11
weighted avg	0.88	0.64	0.57	11

Sentence: what about flights from boston to san diego
True tags: PRON ADP NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.67	0.80	3
3	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.88	0.92	0.87	8
weighted avg	0.94	0.88	0.88	8

Sentence: flights from baltimore to san francisco
True tags: NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i live in washington and i would like to make a trip to san francisco can you tell me which airlines connect with those two cities
True tags: PRON VERB ADP PROPN CCONJ PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN AUX PRON VERB PRON DET NOUN VERB ADP DET NUM NOUN
Predicted tags: PRON VERB ADP PROPN PROPN PRON AUX VERB ADP VERB DET NOUN ADP PROPN PROPN PROPN PRON VERB PRON DET NOUN NOUN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	3
2	0.75	1.00	0.86	3
3	0.60	1.00	0.75	3
4	1.00	0.80	0.89	5
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	4
8	1.00	0.50	0.67	2
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.77	26
macro avg	0.89	0.60	0.56	26
weighted avg	0.87	0.77	0.73	26

Sentence: show me the flights from detroit to las vegas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights go from denver to atlanta
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.71	7
macro avg	0.75	0.67	0.44	7
weighted avg	0.93	0.71	0.67	7

Sentence: show me the flights from montreal to philly
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flight from denver to philadelphia
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: give me the flights from baltimore to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like to fly from boston to baltimore
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.94	0.83	0.80	9
weighted avg	0.93	0.89	0.84	9

Sentence: tell me the flights that leave philadelphia and go to dallas

True tags: VERB PRON DET NOUN ADP VERB PROPN CCONJ VERB ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.93	0.81	0.78	11
weighted avg	0.91	0.82	0.79	11

Sentence: flight information from oakland to denver
True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: the flight will <unk> from boston
True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: DET NOUN NOUN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.67	6
macro avg	0.83	0.67	0.56	6
weighted avg	0.83	0.67	0.56	6

Sentence: what are the flights from pittsburgh to oakland
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights are there from baltimore to newark
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: flights from columbus to milwaukee
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: i <unk> like information on boston to washington

True tags: PRON AUX VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	0.00	0.00	1
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.92	0.83	0.78	8
weighted avg	0.94	0.88	0.83	8

Sentence: list flights from houston to phoenix
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: information of a flight from atlanta to pittsburgh
True tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i need to go to pittsburgh and denver
True tags: PRON VERB PART VERB ADP PROPN CCONJ PROPN
Predicted tags: PRON VERB ADP VERB ADP PROPN VERB PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.50	1.00	0.67	1
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.86	0.67	0.58	8
weighted avg	0.85	0.75	0.66	8

Sentence: what flights from philadelphia to atlanta
True tags: DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.83	6
macro avg	0.80	0.80	0.60	6
weighted avg	1.00	0.83	0.83	6

Sentence: flight from milwaukee to denver
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: tell me the flights from baltimore to dallas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i <unk> like to book a flight from atlanta to denver
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.96	0.88	0.85	11
weighted avg	0.94	0.91	0.87	11

Sentence: now get me from pittsburgh to denver
True tags: ADV VERB PRON ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.00	1.00	0.00	0
4	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.71	7
macro avg	0.83	0.67	0.50	7
weighted avg	1.00	0.71	0.71	7

Sentence: what flights are there from boston to dallas
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: show me flights from pittsburgh to philadelphia
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: show flights from philadelphia to boston
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i <unk> like to see flights from pittsburgh to philadelphia
True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.95	0.86	0.83	10
weighted avg	0.93	0.90	0.86	10

Sentence: give me flights from pittsburgh to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need to go from philadelphia to dallas
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB ADP VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.93	0.80	0.76	8
weighted avg	0.92	0.88	0.82	8

Sentence: show flights from pittsburgh to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what are the flights from chicago to indianapolis
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: get flights from toronto to milwaukee
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
accuracy			0.83	6
macro avg	0.88	0.75	0.67	6
weighted avg	0.92	0.83	0.78	6

Sentence: what are the different classes that an airline offers
True tags: PRON AUX DET ADJ NOUN ADP DET NOUN VERB
Predicted tags: PRON AUX DET NOUN ADP ADP NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
2	0.50	1.00	0.67	1

	precision	recall	f1-score	support
3	0.25	0.50	0.33	2
4	1.00	0.00	0.00	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.56	9
macro avg	0.82	0.57	0.52	9
weighted avg	0.78	0.56	0.52	9

Sentence: show flights between boston and denver
True tags: VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.83	6
macro avg	0.93	0.80	0.76	6
weighted avg	0.89	0.83	0.77	6

Sentence: show flights from dallas to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: show me flights from baltimore to dallas
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me all the flights from memphis to charlotte
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i would like to see the flights from baltimore to philadelphia please
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN INTJ
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.93	0.78	0.73	12
weighted avg	0.89	0.83	0.77	12

Sentence: what flights are there from indianapolis to orlando
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: no i want to go from denver to oakland
True tags: DET PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: NOUN PRON VERB ADP VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	0.00	1.00	0.00	0
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.81	0.71	0.54	9
weighted avg	0.93	0.78	0.73	9

Sentence: show me flights from milwaukee to orlando
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me a list of flights between denver and oakland

True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.95	0.86	0.83	10
weighted avg	0.93	0.90	0.86	10

Sentence: show me all the flights from charlotte to cleveland
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me flights from denver to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: tell me about flights from indianapolis to houston
True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: oakland to philadelphia
True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: what are your flights from denver to baltimore
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX AUX NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.88	8
macro avg	0.92	0.83	0.78	8
weighted avg	0.94	0.88	0.83	8

Sentence: list all flights from baltimore to philadelphia
True tags: VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what flights are available from boston to dallas
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX AUX ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: i would like to see all flights from denver to philadelphia
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.96	0.88	0.85	11
weighted avg	0.94	0.91	0.87	11

Sentence: atlanta to pittsburgh
True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: give me a flight from baltimore to newark that arrives as early as possible
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP ADV ADP ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP ADP NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	0.60	0.67	5
3	0.20	1.00	0.33	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.64	14
macro avg	0.87	0.64	0.58	14
weighted avg	0.85	0.64	0.64	14

Sentence: what flights are there between atlanta and denver
True tags: DET NOUN VERB PRON ADP PROPN CCONJ PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
accuracy			0.62	8

	precision	recall	f1-score	support
macro avg	0.77	0.62	0.43	8
weighted avg	0.85	0.62	0.53	8

Sentence: i need a flight from phoenix to atlanta
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i want to fly from atlanta to philadelphia
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB ADP VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.93	0.80	0.76	8
weighted avg	0.92	0.88	0.82	8

Sentence: also give me a list of flights between oakland and boston
True tags: ADV VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB VERB PRON DET NOUN ADP NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1

	precision	recall	f1-score	support
11	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.90	0.75	0.68	11
weighted avg	0.89	0.82	0.75	11

Average Loss: 0.5764
Average Accuracy: 83.49 %
Sentence: what are the coach flights between dallas and baltimore leaving august tenth and returning august <unk>
True tags: PRON AUX DET NOUN NOUN ADP PROPN CCONJ PROPN VERB NOUN ADJ CCONJ VERB NOUN NUM
Predicted tags: PRON AUX DET PROPN NOUN ADP PROPN CCONJ PROPN VERB NOUN ADJ CCONJ ADJ NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	0.75	0.86	4
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.33	1.00	0.50	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	2
accuracy			0.81	16
macro avg	0.90	0.82	0.78	16
weighted avg	0.92	0.81	0.80	16

Sentence: i want a flight from nashville to seattle that arrives no later than 3 pm
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB DET ADJ ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB NOUN NOUN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.40	1.00	0.57	2
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	15

	macro avg	0.93	0.69	0.65	15
	weighted avg	0.92	0.80	0.77	15

Sentence: i need a flight leaving kansas city to chicago leaving next wednesday and returning the following day
True tags: PRON VERB DET NOUN VERB PROPN PROPN ADP PROPN VERB ADJ NOUN CCONJ VERB DET VERB NOUN
Predicted tags: PRON VERB DET NOUN VERB PROPN PROPN ADP PROPN VERB ADJ NOUN CCONJ NOUN DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
4	1.00	0.60	0.75	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
accuracy			0.88	17
macro avg	0.91	0.95	0.91	17
weighted avg	0.93	0.88	0.88	17

Sentence: explain meal codes <unk> <unk>
True tags: VERB NOUN NOUN PROPN PROPN
Predicted tags: VERB NOUN NOUN AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.60	5
macro avg	0.75	0.75	0.50	5
weighted avg	1.00	0.60	0.60	5

Sentence: show me all flights from atlanta to san francisco which leave the day after tomorrow after 5 <unk> pm
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB DET NOUN ADP NOUN ADP NUM ADV NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN DET VERB DET NOUN ADP NOUN ADP NUM ADV NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	0.67	1.00	0.80	2
6	1.00	0.50	0.67	2
9	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.96	0.94	0.93	19
weighted avg	0.96	0.95	0.94	19

Sentence: i need a flight from toronto to montreal reaching montreal early on friday
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN VERB PROPN ADJ ADP NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN DET ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			0.85	13
macro avg	0.88	0.88	0.86	13
weighted avg	0.88	0.85	0.85	13

Sentence: are there any flights from new york to montreal canada leaving on thursday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN
Predicted tags: AUX PRON DET NOUN ADP PROPN PROPN ADP PROPN NOUN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.85	13

	precision	recall	f1-score	support
macro avg	0.81	0.89	0.76	13
weighted avg	0.95	0.85	0.87	13

Sentence: show me ground transportation in philadelphia on monday morning
True tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: find a flight from toronto to san diego with a layover in dc on delta airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what is restriction ap80
True tags: PRON AUX NOUN PROPN
Predicted tags: PRON AUX NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4

weighted avg   1.00   1.00   1.00   4

Sentence: list the arizona airport
True tags: VERB DET PROPN PROPN
Predicted tags: VERB DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	2
3	0.00	1.00	0.00	0
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			0.50	4
macro avg	0.75	0.75	0.50	4
weighted avg	1.00	0.50	0.50	4

Sentence: what are the nonstop flights on america west or southwest air from kansas city to burbank on saturday may twenty two
True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN CCONJ PROPN PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM NUM
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN CCONJ PROPN PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	7
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	21
macro avg	1.00	1.00	1.00	21
weighted avg	1.00	1.00	1.00	21

Sentence: what times does the late afternoon flight leave from washington for denver
True tags: DET NOUN AUX DET ADJ NOUN NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX DET ADJ NOUN NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.88	0.94	0.83	12
weighted avg	1.00	0.92	0.94	12

Sentence: what does the meal code s stand for
True tags: PRON AUX DET NOUN NOUN PROPN VERB ADP
Predicted tags: PRON AUX DET NOUN NOUN PROPN PROPN ADP
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.93	0.86	0.81	8
weighted avg	0.94	0.88	0.83	8

Sentence: is there ground transportation from the memphis airport into town when if i arrive at <unk> in the morning
True tags: VERB PRON NOUN NOUN ADP DET PROPN PROPN ADP PROPN ADV ADP PRON VERB ADP NUM ADP DET NOUN
Predicted tags: AUX PRON NOUN NOUN ADP DET PROPN PROPN ADP PROPN NUM VERB PRON VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	3
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	0.00	1.00	0.00	0
9	0.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.79	19
macro avg	0.69	0.70	0.58	19
weighted avg	0.86	0.79	0.79	19

Sentence: what flights between dfw and oakland arrive in oakland between <unk> am and <unk> pm
True tags: DET NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN ADP NUM NOUN CCONJ NUM NOUN
Predicted tags: PRON NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN ADP PROPN NOUN CCONJ PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	2
accuracy			0.80	15
macro avg	0.82	0.75	0.59	15
weighted avg	0.92	0.80	0.75	15

Sentence: what are the flights on mondays that travel from charlotte north carolina to phoenix arizona
True tags: PRON AUX DET NOUN ADP PROPN ADP VERB ADP PROPN ADV PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN ADP VERB ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	0.80	0.80	5
2	1.00	1.00	1.00	4
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.91	0.85	0.81	15
weighted avg	0.90	0.87	0.84	15

Sentence: what kind of ground transportation is there in washington dc
True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN PROPN
Predicted tags: PRON NOUN ADP NOUN NOUN AUX PRON ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.80	10
macro avg	0.79	0.71	0.52	10
weighted avg	0.95	0.80	0.77	10

Sentence: in economy class from dallas to baltimore arriving july seventh i <unk> like to know what <unk> the cheapest ticket possible
True tags: ADP NOUN NOUN ADP PROPN ADP PROPN VERB NOUN ADJ PRON AUX VERB PART VERB PRON AUX DET ADJ NOUN ADJ
Predicted tags: ADP PROPN NOUN ADP PROPN ADP PROPN VERB NOUN ADJ PRON AUX VERB PART VERB DET AUX DET ADJ NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	1.00	1.00	1.00	3
5	0.50	1.00	0.67	1
6	1.00	0.50	0.67	2
7	1.00	1.00	1.00	3
8	1.00	1.00	1.00	2
12	1.00	1.00	1.00	1
accuracy			0.90	21
macro avg	0.91	0.92	0.89	21
weighted avg	0.94	0.90	0.91	21

Sentence: show flights from baltimore to san francisco between 6 pm and 8 pm on friday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN CCONJ NUM NOUN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN CCONJ NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2

| | 10 | 1.00 | 1.00 | 1.00 | 1 |

	precision	recall	f1-score	support
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: what meals are available on dl <unk> which <unk> arrives in san francisco at <unk> am
True tags: DET NOUN AUX ADJ ADP PROPN NUM DET PROPN VERB ADP PROPN PROPN ADP NUM NOUN
Predicted tags: PRON NOUN AUX ADJ ADP PROPN PROPN DET AUX VERB ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	0.75	0.67	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
9	1.00	0.00	0.00	2

	precision	recall	f1-score	support
accuracy			0.75	16
macro avg	0.79	0.81	0.67	16
weighted avg	0.87	0.75	0.73	16

Sentence: i want to fly from kansas city to chicago next wednesday arriving in the evening and returning the next day
True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN VERB ADP DET NOUN CCONJ VERB DET ADJ NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN VERB ADP DET NOUN CCONJ ADJ DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.75	0.86	4
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.95	20
macro avg	0.96	0.97	0.96	20

weighted avg   0.97   0.95   0.95   20

Sentence: please book for me a flight on twa from washington dc to san francisco earliest possible time
True tags: INTJ VERB ADP PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN ADV ADJ NOUN
Predicted tags: INTJ VERB ADP PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.94	17
macro avg	0.98	0.89	0.88	17
weighted avg	0.95	0.94	0.91	17

Sentence: is there a red eye flight from san jose to nashville on wednesday the nineteenth of may
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ ADP NOUN
Predicted tags: AUX PRON DET NOUN ADJ NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.60	0.75	0.67	4
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.00	0.00	0.00	2
8	0.00	1.00	0.00	0
accuracy			0.76	17
macro avg	0.70	0.72	0.58	17
weighted avg	0.79	0.76	0.75	17

Sentence: i <unk> like to arrange for two friends to fly into los angeles next saturday evening one of the people is coming from kansas city and the other is coming from las vegas

True tags: PRON AUX VERB PART VERB ADP NUM NOUN PART VERB ADP
PROPN PROPN ADJ NOUN NOUN NUM ADP DET NOUN AUX VERB ADP
PROPN PROPN CCONJ DET ADJ AUX VERB ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB ADP NOUN VERB ADP VERB ADP
PROPN PROPN ADJ NOUN NOUN NUM ADP DET NOUN AUX VERB ADP
PROPN PROPN CCONJ DET ADJ AUX VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	0.83	1.00	0.91	5
3	0.75	0.75	0.75	4
4	0.83	1.00	0.91	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	3
9	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
12	1.00	0.50	0.67	2
accuracy			0.91	33
macro avg	0.95	0.89	0.90	33
weighted avg	0.92	0.91	0.90	33

Sentence: what is restriction ap <unk>
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.90	0.80	0.73	5
weighted avg	0.90	0.80	0.73	5

Sentence: what is restriction ap 80
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.90	0.80	0.73	5
weighted avg	0.90	0.80	0.73	5

Sentence: show me all flights from philadelphia to san francisco with one stop in dallas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NUM ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
accuracy			0.93	14
macro avg	0.93	0.93	0.90	14
weighted avg	0.96	0.93	0.93	14

Sentence: show me the flights from miami to san diego with one stop in denver
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NUM ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
accuracy			0.93	14
macro avg	0.93	0.93	0.90	14
weighted avg	0.96	0.93	0.93	14

Sentence: do you have a flight from atlanta to charlotte north carolina next monday

True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADV PROPN ADJ NOUN
Predicted tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.97	0.89	0.87	13
weighted avg	0.94	0.92	0.89	13

Sentence: i would like to book an early morning flight from tampa florida to charlotte north carolina on april sixth
True tags: PRON AUX VERB PART VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADV PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB PART VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.98	0.90	0.89	19
weighted avg	0.96	0.95	0.92	19

Sentence: now i <unk> like flights from philadelphia to pittsburgh leaving between 430 and 530 pm
True tags: ADV PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB ADP NUM CCONJ NUM NOUN

Predicted tags: ADV PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB ADP NOUN CCONJ PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.87	15
macro avg	0.93	0.89	0.84	15
weighted avg	0.91	0.87	0.81	15

Sentence: from sfo to denver
True tags: ADP PROPN ADP PROPN
Predicted tags: ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: what is the lowest fare from bwi to salt lake city
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: flight numbers from minneapolis to long beach on june twenty six
True tags: NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NUM NUM
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NUM NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
9	1.00	1.00	1.00	2
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: which is the flight number for the us air flight from philadelphia to boston is it <unk> or is it <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN AUX PRON NUM CCONJ AUX PRON NUM
Predicted tags: DET AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN VERB VERB AUX CCONJ AUX VERB AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	0.67	1.00	0.80	2
6	1.00	0.00	0.00	3
8	0.50	0.67	0.57	3
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
accuracy			0.71	21
macro avg	0.80	0.74	0.60	21
weighted avg	0.90	0.71	0.68	21

Sentence: how much would car rental cost in atlanta
True tags: ADV ADV AUX NOUN ADJ VERB ADP PROPN
Predicted tags: ADV ADV AUX AUX PROPN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	0.00	0.00	0.00	1
4	1.00	0.00	0.00	1

	precision	recall	f1-score	support
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
11	1.00	1.00	1.00	2
accuracy			0.62	8
macro avg	0.71	0.57	0.48	8
weighted avg	0.75	0.62	0.54	8

Sentence: please list the prices for a rental car in pittsburgh
True tags: INTJ VERB DET NOUN ADP DET ADJ NOUN ADP PROPN
Predicted tags: INTJ VERB DET NOUN ADP DET PROPN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.93	0.86	0.81	10
weighted avg	0.95	0.90	0.87	10

Sentence: what does the restriction <unk> mean
True tags: PRON AUX DET NOUN PROPN VERB
Predicted tags: PRON AUX DET NOUN AUX VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.83	6
macro avg	0.92	0.83	0.78	6
weighted avg	0.92	0.83	0.78	6

Sentence: list nonstop flights from baltimore washington to oakland that arrive
between <unk> and <unk> pm
True tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP
NUM CCONJ NUM NOUN
Predicted tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB
ADP PROPN CCONJ PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
accuracy			0.87	15
macro avg	0.93	0.83	0.79	15
weighted avg	0.92	0.87	0.82	15

Sentence: list all of the daily flights arriving in denver from 8 to 9 pm
True tags: VERB DET ADP DET ADJ NOUN VERB ADP PROPN ADP NUM ADP NUM NOUN
Predicted tags: VERB DET ADP DET ADJ NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
accuracy			0.93	14
macro avg	0.93	0.93	0.90	14
weighted avg	0.96	0.93	0.93	14

Sentence: get flights from milwaukee to <unk>
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what is the earliest flight from boston to bwi that serves a snack

True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.94	0.93	13
weighted avg	0.95	0.92	0.92	13

Sentence: is bwi washington
True tags: VERB PROPN PROPN
Predicted tags: AUX NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
3	0.00	1.00	0.00	0
4	1.00	0.00	0.00	1
8	0.00	1.00	0.00	0
accuracy			0.33	3
macro avg	0.50	0.62	0.17	3
weighted avg	1.00	0.33	0.44	3

Sentence: what are the cities that american airlines serves
True tags: PRON AUX DET NOUN ADP PROPN PROPN VERB
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8

| | macro avg | 0.95 | 0.86 | 0.83 | 8 |
| weighted avg | 0.92 | 0.88 | 0.82 | 8 |

Sentence: which cities are serviced by both american and delta airlines
True tags: DET NOUN AUX VERB ADP DET PROPN CCONJ PROPN PROPN
Predicted tags: DET NOUN VERB ADJ ADP PROPN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	0.00	0.00	0.00	1
5	1.00	0.50	0.67	2
7	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.70	10
macro avg	0.72	0.69	0.57	10
weighted avg	0.82	0.70	0.69	10

Sentence: show me all the us air flights to pittsburgh between 12 and 4 in the afternoon
True tags: VERB PRON DET DET PROPN PROPN NOUN ADP PROPN ADP NUM CCONJ NUM ADP DET NOUN
Predicted tags: VERB PRON DET DET PROPN PROPN NOUN ADP PROPN ADP NUM CCONJ NUM ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what is the cost of limousine service in philadelphia
True tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: how much does the limousine service cost within pittsburgh
True tags: ADV ADV AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: ADV ADV AUX DET NOUN NOUN NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	0.00	0.00	1
3	0.50	1.00	0.67	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	2
accuracy			0.78	9
macro avg	0.93	0.71	0.67	9
weighted avg	0.89	0.78	0.70	9

Sentence: on november twenty third of this <unk> 1991 i <unk> like to fly from atlanta to denver and i <unk> like to fly on delta
True tags: ADP NOUN NUM PROPN ADP DET NOUN NUM PRON AUX VERB PART VERB ADP PROPN ADP PROPN CCONJ PRON AUX VERB PART VERB ADP PROPN
Predicted tags: ADP NOUN NUM ADJ ADP DET ADV NOUN PRON AUX VERB PART VERB ADP PROPN ADP PROPN CCONJ PRON AUX VERB PART VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	5
3	0.50	0.50	0.50	2
4	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	2
9	1.00	0.50	0.67	2

	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	0.00	1.00	0.00	0
12	1.00	1.00	1.00	2

accuracy			0.88	25
macro avg	0.79	0.90	0.75	25
weighted avg	0.96	0.88	0.91	25

Sentence: can you tell me the flights on october fifteenth 1991 from boston to oakland
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADJ NUM ADP PROPN ADP PROPN
Predicted tags: AUX PRON VERB PRON DET NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1

accuracy			0.86	14
macro avg	0.92	0.78	0.72	14
weighted avg	0.91	0.86	0.80	14

Sentence: show me all united flights from denver to san francisco for september first 1991
True tags: VERB PRON DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ NUM
Predicted tags: VERB PRON DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1

accuracy		0.93	14

| | macro avg | 0.96 | 0.88 | 0.85 | 14 |
| weighted avg | 0.95 | 0.93 | 0.90 | 14 |

Sentence: information on american airline flights from washington to philadelphia early morning times of flight
True tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NOUN
Predicted tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
7	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: please give me the flight times i would like to fly from boston to baltimore in the morning before 8
True tags: INTJ VERB PRON DET NOUN NOUN PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NUM
Predicted tags: INTJ VERB PRON DET NOUN NOUN PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	20
macro avg	1.00	1.00	1.00	20
weighted avg	1.00	1.00	1.00	20

Sentence: please list the flight times for boston to pittsburgh
True tags: INTJ VERB DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: INTJ VERB DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all flights and fares from dallas to san francisco
True tags: VERB PRON DET NOUN CCONJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN CCONJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: please list me the flights and their cost of all airlines flying from denver to baltimore
True tags: INTJ VERB PRON DET NOUN CCONJ DET NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: INTJ VERB PRON DET NOUN CCONJ ADP VERB ADP DET NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	1.00	0.67	0.80	3
4	0.67	1.00	0.80	2
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.88	16
macro avg	0.93	0.92	0.91	16
weighted avg	0.91	0.88	0.87	16

Sentence: give me the flights and fares on december twenty seventh from indianapolis to orlando
True tags: VERB PRON DET NOUN CCONJ NOUN ADP NOUN NUM ADJ ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN CCONJ NOUN ADP NOUN NUM ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: is there ground transportation from lga into new york city
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: AUX PRON NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.90	10
macro avg	0.83	0.83	0.67	10
weighted avg	1.00	0.90	0.90	10

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: how far is toronto international from downtown
True tags: ADV ADV AUX PROPN PROPN ADP NOUN
Predicted tags: ADV ADP AUX PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
accuracy			0.86	7
macro avg	0.90	0.90	0.87	7
weighted avg	0.93	0.86	0.86	7

Sentence: how far is los angeles international from downtown
True tags: ADV ADV AUX PROPN PROPN PROPN ADP NOUN
Predicted tags: ADV ADP AUX PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2

	precision	recall	f1-score	support
accuracy			0.88	8
macro avg	0.90	0.90	0.87	8
weighted avg	0.94	0.88	0.87	8

Sentence: how long does a flight from baltimore to san francisco take
True tags: ADV ADV AUX DET NOUN ADP PROPN ADP PROPN PROPN VERB
Predicted tags: ADV ADV AUX DET NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	2
accuracy			0.91	11
macro avg	0.96	0.86	0.84	11
weighted avg	0.93	0.91	0.87	11

Sentence: what airport in new york is closest to downtown
True tags: DET NOUN ADP PROPN PROPN AUX ADJ ADP NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN VERB PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.71	0.62	0.35	9
weighted avg	0.93	0.67	0.62	9

Sentence: houston airports
True tags: PROPN NOUN
Predicted tags: PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
accuracy			1.00	2
macro avg	1.00	1.00	1.00	2
weighted avg	1.00	1.00	1.00	2

Sentence: give me a list of airports in baltimore
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: where does delta fly to that american does not
True tags: ADV AUX PROPN VERB PART ADP PROPN AUX ADV
Predicted tags: ADJ AUX PROPN VERB ADP ADP PROPN AUX PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	2
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.74	0.71	0.50	9
weighted avg	0.87	0.67	0.59	9

Sentence: which airline has the smallest plane leaving pittsburgh and arriving in baltimore on july fourth
True tags: DET NOUN VERB DET ADJ NOUN VERB PROPN CCONJ VERB ADP PROPN ADP NOUN ADJ
Predicted tags: DET NOUN VERB DET ADJ NOUN VERB PROPN CCONJ VERB ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: which flight from pittsburgh to baltimore carries the smallest number of passengers
True tags: DET NOUN ADP PROPN ADP PROPN VERB DET ADJ NOUN ADP NOUN
Predicted tags: DET NOUN ADP PROPN ADP PROPN PROPN DET ADJ NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.94	0.83	0.80	12
weighted avg	0.94	0.92	0.88	12

Sentence: what is the first flight from boston to stapleton airport for tomorrow
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12

weighted avg   1.00   1.00   1.00   12

Sentence: list all the flights that arrive at general mitchell international
True tags: VERB DET DET NOUN ADP VERB ADP PROPN PROPN PROPN
Predicted tags: VERB DET DET NOUN ADP VERB ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: how much does it cost to go from downtown to logan airport
True tags: ADV ADV AUX PRON VERB PART VERB ADP NOUN ADP PROPN PROPN
Predicted tags: ADV ADV AUX PRON VERB PART VERB ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	2
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me flights from all airports to love field
True tags: VERB PRON NOUN ADP DET NOUN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN ADP DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

| | | | | 6 | 1.00 | 1.00 | 1.00 | 1 |

	precision	recall	f1-score	support
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: flights from cincinnati to <unk> departing after 718 am american
True tags: NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.95	0.80	0.77	10
weighted avg	0.93	0.90	0.86	10

Sentence: show me all flights to dallas that are less than 1500 dollars round trip
True tags: VERB PRON DET NOUN ADP PROPN ADP AUX ADJ ADP NUM NOUN NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP VERB ADJ ADP NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	3
3	0.80	1.00	0.89	4
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.92	0.78	0.73	14
weighted avg	0.91	0.86	0.80	14

Sentence: round trip fares from pittsburgh to philadelphia under 1000 dollars
True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	4
4	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.73	0.73	0.52	10
weighted avg	0.93	0.80	0.80	10

Sentence: round trip fares from baltimore to philadelphia under 1000 dollars
True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	4
4	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.73	0.73	0.52	10
weighted avg	0.93	0.80	0.80	10

Sentence: all flights from baltimore to philadelphia less than 1000 dollars
True tags: DET NOUN ADP PROPN ADP PROPN ADJ ADP NUM NOUN
Predicted tags: DET NOUN ADP PROPN ADP PROPN ADJ ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: how many seats in a 100
True tags: ADV ADJ NOUN ADP DET PROPN
Predicted tags: ADV ADJ NOUN ADP DET NOUN
Classification Report:

```
             precision    recall  f1-score   support

        1        1.00      0.00      0.00         1
        2        1.00      1.00      1.00         1
        3        0.50      1.00      0.67         1
        5        1.00      1.00      1.00         1
        7        1.00      1.00      1.00         1
       11        1.00      1.00      1.00         1

 accuracy                            0.83         6
macro avg        0.92      0.83      0.78         6
weighted avg     0.92      0.83      0.78         6
```

Sentence: how many passengers can a boeing 737 hold
True tags: ADV ADJ NOUN AUX DET PROPN NUM VERB
Predicted tags: ADV ADJ NOUN AUX DET NOUN ADJ PROPN
Classification Report:

```
             precision    recall  f1-score   support

        1        0.00      0.00      0.00         1
        3        0.50      1.00      0.67         1
        4        1.00      0.00      0.00         1
        5        1.00      1.00      1.00         1
        7        0.50      1.00      0.67         1
        8        1.00      1.00      1.00         1
        9        1.00      0.00      0.00         1
       11        1.00      1.00      1.00         1

 accuracy                            0.62         8
macro avg        0.75      0.62      0.54         8
weighted avg     0.75      0.62      0.54         8
```

Sentence: what is the seating capacity of a <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP DET PROPN
Classification Report:

```
             precision    recall  f1-score   support

        1        1.00      1.00      1.00         1
        2        1.00      1.00      1.00         1
        3        1.00      1.00      1.00         2
        5        1.00      1.00      1.00         2
        6        1.00      1.00      1.00         1
        8        1.00      1.00      1.00         1

 accuracy                            1.00         8
macro avg        1.00      1.00      1.00         8
weighted avg     1.00      1.00      1.00         8
```

Sentence: what is the seating capacity for delta be1

True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.94	0.92	0.91	8
weighted avg	0.92	0.88	0.87	8

Sentence: show me the flights from indianapolis to orlando with round trip fares less than <unk>
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN ADJ ADP NUM
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN ADJ ADP ADV
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	0.00	1.00	0.00	0
accuracy			0.93	15
macro avg	0.89	0.89	0.78	15
weighted avg	1.00	0.93	0.93	15

Sentence: show me what flights are available from baltimore to dallas with economy fares
True tags: VERB PRON DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON PRON NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.94	0.88	0.83	13
weighted avg	0.96	0.92	0.90	13

Sentence: baltimore to kansas city economy
True tags: PROPN ADP PROPN PROPN NOUN
Predicted tags: PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: economy fares new york to miami round trip
True tags: NOUN NOUN PROPN PROPN ADP PROPN NOUN NOUN
Predicted tags: NOUN NOUN PROPN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: find me all the round trip flights from burbank to milwaukee stopping in <unk> louis
True tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN VERB ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: i <unk> like to find a flight from charlotte to las vegas and make a stop in <unk> louis
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: can you tell me which flights go from memphis to tacoma and make a stop in los angeles
True tags: AUX PRON VERB PRON DET NOUN VERB ADP PROPN ADP PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Predicted tags: AUX PRON VERB PRON DET NOUN VERB ADP PROPN ADP PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1

```
       accuracy                          1.00       18
      macro avg       1.00      1.00      1.00       18
   weighted avg       1.00      1.00      1.00       18
```

Sentence: is there a flight between oakland and boston with a stopover in dallas fort worth on twa
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN CCONJ PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN
Classification Report:

```
             precision    recall  f1-score   support

         1       1.00      1.00      1.00        6
         2       1.00      1.00      1.00        4
         3       1.00      1.00      1.00        2
         4       1.00      0.00      0.00        1
         5       1.00      1.00      1.00        2
         6       1.00      1.00      1.00        1
         8       0.00      1.00      0.00        0
        10       1.00      1.00      1.00        1

  accuracy                          0.94       17
 macro avg       0.88      0.88      0.75       17
weighted avg     1.00      0.94      0.94       17
```

Sentence: show me all direct flights from san francisco to boston departing before noon
True tags: VERB PRON DET ADJ NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Predicted tags: VERB PRON DET ADJ NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Classification Report:

```
             precision    recall  f1-score   support

         1       1.00      1.00      1.00        3
         2       1.00      1.00      1.00        3
         3       1.00      1.00      1.00        2
         4       1.00      1.00      1.00        2
         5       1.00      1.00      1.00        1
         6       1.00      1.00      1.00        1
         7       1.00      1.00      1.00        1

  accuracy                          1.00       13
 macro avg       1.00      1.00      1.00       13
weighted avg     1.00      1.00      1.00       13
```

Sentence: do you have an early morning direct flight from philadelphia to pittsburgh
True tags: AUX PRON VERB DET ADJ NOUN ADJ NOUN ADP PROPN ADP PROPN

Predicted tags: AUX PRON VERB DET ADJ NOUN ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: which united flights from boston to san francisco make connections
True tags: DET PROPN NOUN ADP PROPN ADP PROPN PROPN VERB NOUN
Predicted tags: DET PROPN NOUN ADP PROPN ADP PROPN PROPN VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: nonstop or connecting flights from seattle to boston
True tags: NOUN CCONJ VERB NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN CCONJ VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: please give me direct morning flights from pittsburgh to atlanta
True tags: INTJ VERB PRON ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.95	0.86	0.83	10
weighted avg	0.93	0.90	0.86	10

Sentence: list the flights that leave from philadelphia to atlanta early thursday morning before 8 am
True tags: VERB DET NOUN ADP VERB ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NUM NOUN
Predicted tags: VERB DET NOUN ADP VERB ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: give me the flights from boston to san francisco leaving early today
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
accuracy			0.92	12
macro avg	0.93	0.93	0.90	12
weighted avg	0.96	0.92	0.92	12

Sentence: show me the continental flights leaving chicago early saturday morning
True tags: VERB PRON DET PROPN NOUN VERB PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET PROPN NOUN VERB PROPN ADJ NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: which flights are leaving from kansas city to atlanta early monday morning
True tags: DET NOUN AUX VERB ADP PROPN PROPN ADP PROPN ADJ NOUN NOUN
Predicted tags: DET NOUN VERB VERB ADP PROPN PROPN ADP PROPN ADJ NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.93	0.86	0.81	12
weighted avg	0.96	0.92	0.89	12

Sentence: i would like to find flights from columbus to minneapolis on monday june fourteenth early in the morning or in the evening sunday june thirteenth thank you

True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADJ ADP DET NOUN CCONJ ADP DET NOUN NOUN NOUN ADJ VERB PRON

Predicted tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN PROPN ADJ ADP DET NOUN CCONJ ADP DET NOUN NOUN NOUN PROPN VERB PRON

Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	7
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	0.33	0.50	3
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.93	27
macro avg	0.95	0.93	0.92	27
weighted avg	0.96	0.93	0.92	27

Sentence: and from milwaukee to atlanta before 10 am daily
True tags: CCONJ ADP PROPN ADP PROPN ADP NUM NOUN ADJ
Predicted tags: CCONJ ADP PROPN ADP PROPN ADP NUM NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list daily flights from denver to boston
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list flights from boston to pittsburgh daily
True tags: VERB NOUN ADP PROPN ADP PROPN ADJ
Predicted tags: VERB NOUN ADP PROPN ADP PROPN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: show me all daily flights between milwaukee and orlando
True tags: VERB PRON DET ADJ NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET ADJ NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list daily flights from boston to oakland using continental airlines
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN VERB PROPN PROPN
Predicted tags: VERB ADJ NOUN ADP PROPN ADP PROPN VERB PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the flights arriving in baltimore on june fifteenth leaving either from denver or dallas
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ VERB CCONJ ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ VERB VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
10	1.00	0.50	0.67	2
accuracy			0.94	16
macro avg	0.97	0.94	0.94	16
weighted avg	0.95	0.94	0.93	16

Sentence: list the flights from pittsburgh to baltimore arriving on july first
True tags: VERB DET NOUN ADP PROPN ADP PROPN VERB ADP NOUN ADJ
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN VERB ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights arriving on baltimore on june fourteenth

True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the cheapest flight arriving in baltimore on june fourteenth starting from dallas
True tags: VERB PRON DET ADJ NOUN VERB ADP PROPN ADP NOUN ADJ VERB ADP PROPN
Predicted tags: VERB PRON DET ADJ NOUN VERB ADP PROPN ADP NOUN ADJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: how many airlines fly from new york to los angeles by way of milwaukee
True tags: ADV ADJ NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Predicted tags: ADV ADJ NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.80	0.89	5
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.94	0.97	0.95	14
weighted avg	0.95	0.93	0.93	14

Sentence: how many flights does twa have in business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: ADV ADJ NOUN AUX PROPN VERB ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.93	0.95	0.92	9
weighted avg	0.94	0.89	0.90	9

Sentence: how many first class flights does delta have today
True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB NOUN
Predicted tags: ADV ADJ ADJ NOUN NOUN AUX PROPN VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
accuracy			0.89	9
macro avg	0.92	0.92	0.89	9
weighted avg	0.94	0.89	0.89	9

Sentence: how many flights does twa have with business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: how many first class flights does united have leaving from all cities today
True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB VERB ADP DET NOUN NOUN
Predicted tags: ADV ADJ ADJ NOUN NOUN AUX PROPN VERB VERB ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
11	1.00	0.50	0.67	2
accuracy			0.92	13
macro avg	0.94	0.94	0.92	13
weighted avg	0.96	0.92	0.92	13

Sentence: what time does the tuesday morning 755 flight leaving washington arrive in san francisco
True tags: DET NOUN AUX DET NOUN NOUN NUM NOUN VERB PROPN VERB ADP PROPN PROPN
Predicted tags: PRON NOUN AUX DET NOUN NOUN NOUN NOUN VERB PROPN VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	0.80	1.00	0.89	4
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.86	14

macro avg	0.85	0.81	0.69	14
weighted avg	0.94	0.86	0.85	14

Sentence: i would like the time of your earliest flight in the morning from philadelphia to washington on american airlines
True tags: PRON AUX VERB DET NOUN ADP DET ADJ NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP DET ADJ NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: when does continental fly from philadelphia to denver on sundays
True tags: ADV AUX PROPN VERB ADP PROPN ADP PROPN ADP PROPN
Predicted tags: VERB AUX PROPN VERB ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.90	0.80	0.73	10
weighted avg	0.95	0.90	0.87	10

Sentence: i would like a schedule of flights from san francisco to boston on wednesday
True tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: in pittsburgh i <unk> like to rent a car
True tags: ADP PROPN PRON AUX VERB PART VERB DET NOUN
Predicted tags: ADP PROPN PRON AUX VERB PART VERB DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: is there limousine service available at baltimore airport
True tags: AUX PRON NOUN NOUN ADJ ADP PROPN PROPN
Predicted tags: AUX PRON NOUN NOUN ADJ ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: may i have a listing of flights from long beach california to columbus ohio on wednesday

True tags: AUX PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN
PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: NOUN PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN
PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.94	16
macro avg	0.96	0.86	0.84	16
weighted avg	0.95	0.94	0.91	16

Sentence: i need a ticket from nashville tennessee to seattle
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> need information please on a flight from washington dc san
francisco california
True tags: PRON AUX VERB NOUN INTJ ADP DET NOUN ADP PROPN PROPN
PROPN PROPN PROPN
Predicted tags: PRON AUX VERB NOUN INTJ ADP DET NOUN ADP PROPN
PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: please list any flights from oakland california to philadelphia on tuesday
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: can you tell me which flight from dallas to baltimore has the least expensive fare
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN VERB DET ADJ ADJ NOUN
Predicted tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN DET ADJ ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.96	0.94	0.93	15
weighted avg	0.96	0.93	0.93	15

Sentence: of the flights available from dallas to baltimore on august third which airline has the least expensive flight

True tags: ADP DET NOUN ADJ ADP PROPN ADP PROPN ADP NOUN ADJ DET NOUN VERB DET ADJ ADJ NOUN
Predicted tags: ADP DET NOUN ADJ ADP PROPN ADP PROPN ADP NOUN ADJ DET NOUN PROPN DET ADJ ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	3
7	1.00	1.00	1.00	4
accuracy			0.94	18
macro avg	0.94	0.83	0.80	18
weighted avg	0.96	0.94	0.92	18

Sentence: what are the most expensive first class tickets between boston and san francisco
True tags: PRON AUX DET ADJ ADJ ADV NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: PRON AUX DET ADJ ADJ ADJ NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.96	0.89	0.87	13
weighted avg	0.95	0.92	0.89	13

Sentence: what are the least expensive flights from denver to atlanta
True tags: PRON AUX DET ADJ ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what <unk> the price of the least expensive first class round trip ticket on us air from cleveland to miami
True tags: PRON AUX DET NOUN ADP DET ADJ ADJ ADV NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP DET ADJ ADJ ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.95	20
macro avg	0.96	0.88	0.85	20
weighted avg	0.97	0.95	0.93	20

Sentence: great now what i want to find out is on april twentieth from washington to denver do you have a flight least expensive fare around 5 <unk> in the morning
True tags: ADJ ADV PRON PRON VERB PART VERB ADV AUX ADP NOUN ADJ ADP PROPN ADP PROPN AUX PRON VERB DET NOUN ADJ ADJ NOUN ADP NUM ADV ADP DET NOUN
Predicted tags: VERB ADV DET PRON VERB PART VERB ADP VERB ADP NOUN NOUN ADP PROPN ADP PROPN AUX PRON VERB DET NOUN ADJ ADJ NOUN ADP NUM ADV ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.83	1.00	0.91	5
3	0.80	1.00	0.89	4
4	0.60	1.00	0.75	3
5	0.67	1.00	0.80	2
6	1.00	0.67	0.80	3
7	1.00	0.50	0.67	4
8	1.00	0.50	0.67	2

	precision	recall	f1-score	support
9	1.00	1.00	1.00	1
11	1.00	0.67	0.80	3
12	1.00	1.00	1.00	1
accuracy		0.83	30	
macro avg	0.90	0.85	0.84	30
weighted avg	0.88	0.83	0.83	30

Sentence: what ground transportation is available between milwaukee airport and downtown milwaukee
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN CCONJ NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN CCONJ NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy		0.91	11	
macro avg	0.88	0.88	0.75	11
weighted avg	1.00	0.91	0.91	11

Sentence: please list all the takeoffs and landings for general mitchell international
True tags: INTJ VERB DET DET NOUN CCONJ NOUN ADP PROPN PROPN PROPN
Predicted tags: INTJ VERB DET DET PROPN CCONJ PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy		0.82	11	
macro avg	0.94	0.86	0.82	11
weighted avg	0.89	0.82	0.75	11

Sentence: what ground transportation is available from la guardia airport into new york city
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: what ground transportation is available from dallas fort worth airport to downtown dallas
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: ground transportation please in the city of boston between airport and downtown
True tags: NOUN NOUN INTJ ADP DET PROPN ADP PROPN ADP NOUN CCONJ NOUN
Predicted tags: NOUN NOUN INTJ ADP DET PROPN ADP PROPN ADP NOUN CCONJ NOUN
Classification Report:

precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: ground san francisco
True tags: NOUN PROPN PROPN
Predicted tags: NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: tell me about ground transportation at san francisco
True tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: now show me all the flights from <unk> louis to burbank
True tags: ADV VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: ADV VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: saturday or sunday flights between milwaukee and phoenix american airlines
True tags: NOUN CCONJ NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: NOUN CCONJ NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
10	1.00	1.00	1.00	2
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all flights from denver or philadelphia or pittsburgh to baltimore
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN CCONJ PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN CCONJ PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	2
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what are the flights from cleveland to indianapolis on wednesday may twelfth on either twa delta or continental

True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADP CCONJ PROPN PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADP ADP PROPN PROPN PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	0.80	1.00	0.89	4
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
10	1.00	0.50	0.67	2
accuracy			0.89	18
macro avg	0.95	0.81	0.81	18
weighted avg	0.91	0.89	0.86	18

Sentence: list all flights that leave from baltimore or denver or pittsburgh and arrive in philadelphia
True tags: VERB DET NOUN ADP VERB ADP PROPN CCONJ PROPN CCONJ PROPN CCONJ VERB ADP PROPN
Predicted tags: VERB DET NOUN ADP VERB ADP PROPN CCONJ PROPN CCONJ PROPN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	3
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: what does the fare code y mean
True tags: PRON AUX DET NOUN NOUN NOUN VERB
Predicted tags: PRON AUX DET NOUN NOUN NOUN VERB
Classification Report:

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what does fare code qw mean
True tags: PRON AUX NOUN NOUN PROPN VERB
Predicted tags: PRON AUX NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what is fare code qw
True tags: PRON AUX NOUN NOUN PROPN
Predicted tags: PRON AUX NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: what does fare code <unk> mean
True tags: PRON AUX NOUN NOUN PROPN VERB
Predicted tags: PRON AUX NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6

```
   macro avg      1.00     1.00     1.00       6
weighted avg        1.00     1.00     1.00        6
```

Sentence: what does the fare code yn mean
True tags: PRON AUX DET NOUN NOUN PROPN VERB
Predicted tags: PRON AUX DET NOUN NOUN PROPN VERB
Classification Report:

```
          precision    recall  f1-score   support

       1     1.00      1.00      1.00         1
       3     1.00      1.00      1.00         2
       4     1.00      1.00      1.00         1
       5     1.00      1.00      1.00         1
       6     1.00      1.00      1.00         1
       8     1.00      1.00      1.00         1

  accuracy                      1.00         7
 macro avg      1.00     1.00     1.00       7
weighted avg        1.00     1.00     1.00        7
```

Sentence: list all flights on united from san francisco to boston with fare code qx
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NOUN
Classification Report:

```
          precision    recall  f1-score   support

       1     1.00      0.80      0.89         5
       2     1.00      1.00      1.00         4
       3     0.75      1.00      0.86         3
       4     1.00      1.00      1.00         1
       5     1.00      1.00      1.00         1

  accuracy                      0.93        14
 macro avg      0.95     0.96     0.95      14
weighted avg        0.95     0.93     0.93       14
```

Sentence: what is the latest flight from boston to denver that serves a meal
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Classification Report:

```
          precision    recall  f1-score   support

       1     1.00      1.00      1.00         2
       2     1.00      1.00      1.00         3
       3     1.00      1.00      1.00         2
       4     1.00      1.00      1.00         1
```

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list all flights from chicago to seattle on continental which depart on saturday and serve meals
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PRON VERB ADP NOUN CCONJ VERB NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN DET VERB ADP NOUN CCONJ VERB PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	3
5	0.50	1.00	0.67	1
6	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.88	16
macro avg	0.89	0.81	0.76	16
weighted avg	0.92	0.88	0.85	16

Sentence: could you tell me what the earliest flight that goes between atlanta and denver is which serves a meal
True tags: AUX PRON VERB PRON PRON DET ADJ NOUN ADP VERB ADP PROPN CCONJ PROPN AUX PRON VERB DET NOUN
Predicted tags: AUX PRON VERB PRON PRON DET ADJ NOUN ADP VERB ADP PROPN CCONJ PROPN VERB DET PROPN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.67	0.67	0.67	3
5	0.67	1.00	0.80	2
6	1.00	0.75	0.86	4
7	1.00	1.00	1.00	1
8	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
accuracy			0.84	19

	precision	recall	f1-score	support
macro avg	0.89	0.88	0.87	19
weighted avg	0.88	0.84	0.84	19

Sentence: give me the saturday morning flights with meals from chicago to minneapolis
True tags: VERB PRON DET NOUN NOUN NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: list flights from seattle to salt lake city on delta l10
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all flights from san diego to phoenix on a boeing 737
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET PROPN NUM
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET PROPN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.88	0.88	0.75	13
weighted avg	1.00	0.92	0.92	13

Sentence: what is a d9s
True tags: PRON AUX DET PROPN
Predicted tags: PRON AUX DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.75	4
macro avg	0.80	0.80	0.60	4
weighted avg	1.00	0.75	0.75	4

Sentence: what is the earliest flight between baltimore and oakland that serves breakfast
True tags: PRON AUX DET ADJ NOUN ADP PROPN CCONJ PROPN ADP VERB NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN CCONJ PROPN ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: a breakfast flight from denver to san francisco please
True tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN INTJ
Predicted tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list flights between boston and san francisco that serve breakfast
True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN ADP VERB NOUN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: give me all flights from boston to philadelphia next week arriving after lunch
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADJ NOUN VERB ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADJ NOUN VERB ADP NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0

	precision	recall	f1-score	support
accuracy			0.92	13
macro avg	0.88	0.96	0.85	13
weighted avg	1.00	0.92	0.95	13

Sentence: please show me flights from pittsburgh to atlanta on wednesday morning serving breakfast
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN VERB NOUN
Predicted tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.80	1.00	0.89	4
4	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.97	0.92	0.93	13
weighted avg	0.94	0.92	0.91	13

Sentence: what is the first flight that goes from atlanta to baltimore that serves breakfast
True tags: PRON AUX DET ADJ NOUN ADP VERB ADP PROPN ADP PROPN ADP VERB NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP VERB ADP PROPN ADP PROPN ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: which flights arrive in <unk> louis from <unk> paul on thursday morning
True tags: DET NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN

Predicted tags: DET NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like one flight from kansas city to <unk> paul arriving around dinnertime 6 pm

True tags: PRON AUX VERB NUM NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN NUM NOUN

Predicted tags: PRON AUX VERB NUM NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN NUM NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: list flights from dallas to houston arriving sunday afternoon

True tags: VERB NOUN ADP PROPN ADP PROPN VERB NOUN NOUN

Predicted tags: VERB NOUN ADP PROPN ADP PROPN VERB NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list nonstop flights from baltimore washington airport to oakland that depart in the afternoon
True tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP VERB ADP DET NOUN
Predicted tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP VERB ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i need flight information on thursday leaving pittsburgh and arriving in baltimore in the morning
True tags: PRON VERB NOUN NOUN ADP NOUN VERB PROPN CCONJ VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN VERB PROPN CCONJ VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: morning flights out of san francisco arriving boston afternoon
True tags: NOUN NOUN ADP ADP PROPN PROPN VERB PROPN NOUN
Predicted tags: NOUN NOUN ADP ADP PROPN PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i would like to <unk> my flight in washington dc stop in denver with the destination city of san francisco
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN VERB ADP PROPN ADP DET NOUN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART PART PROPN NOUN ADP PROPN PROPN VERB ADP PROPN ADP DET NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	0.83	0.83	6
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	0.67	0.80	3
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	0.50	1.00	0.67	1
accuracy			0.85	20
macro avg	0.88	0.88	0.85	20
weighted avg	0.89	0.85	0.85	20

Sentence: show me a list of flights on july twenty second leaving dc to dallas leaving dc after 6 pm
True tags: VERB PRON DET NOUN ADP NOUN ADP NOUN NUM ADJ VERB PROPN ADP PROPN VERB PROPN ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP NOUN NUM ADJ VERB PROPN ADP PROPN VERB PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: what airlines from washington dc to columbus
True tags: DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.80	0.80	0.60	7
weighted avg	1.00	0.86	0.86	7

Sentence: list flights from washington dc to boston
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: could you please give me information <unk> american airlines a flight from washington dc to philadelphia the earliest one in the morning as possible
True tags: AUX PRON INTJ VERB PRON NOUN VERB PROPN PROPN DET NOUN ADP PROPN PROPN ADP PROPN DET ADJ PRON ADP DET NOUN ADP ADJ
Predicted tags: AUX PRON INTJ VERB PRON NOUN AUX PROPN PROPN DET NOUN ADP PROPN PROPN ADP PROPN DET ADJ NUM ADP DET NOUN ADP ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	3
6	1.00	0.67	0.80	3
7	1.00	1.00	1.00	2
8	0.50	1.00	0.67	1

	precision	recall	f1-score	support
9	0.00	1.00	0.00	0
13	1.00	1.00	1.00	1
accuracy			0.92	24
macro avg	0.85	0.92	0.81	24
weighted avg	0.98	0.92	0.93	24

Sentence: list flights from washington dc to pittsburgh
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need a flight from washington dc to san diego
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i would like to fly from boston to baltimore please tell me what are the times of the flights
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN INTJ VERB PRON PRON AUX DET NOUN ADP DET NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN INTJ VERB PRON PRON AUX DET NOUN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	3
8	1.00	1.00	1.00	2
12	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: does flight dl <unk> dl <unk> from boston to denver stop in philadelphia
True tags: AUX NOUN PROPN NUM PROPN NUM ADP PROPN ADP PROPN VERB ADP PROPN
Predicted tags: AUX NOUN PROPN ADV PROPN ADV ADP PROPN ADP PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
11	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.85	0.85	13

Sentence: what kind of airplane is flight ua 281 from boston to denver
True tags: DET NOUN ADP NOUN AUX NOUN PROPN NUM ADP PROPN ADP PROPN
Predicted tags: PRON NOUN ADP NOUN AUX NOUN PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.83	12

macro avg	0.82	0.71	0.55	12
weighted avg	0.94	0.83	0.80	12

Sentence: what is the price of american airlines flight <unk> from new york to los angeles
True tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN NUM ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.86	1.00	0.92	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.98	0.86	0.85	15
weighted avg	0.94	0.93	0.90	15

Sentence: what is the first class fare on united flight <unk> from denver to boston
True tags: PRON AUX DET ADV NOUN NOUN ADP PROPN NOUN NUM ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN NOUN ADV ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	0.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.78	0.78	0.67	14
weighted avg	0.93	0.86	0.86	14

Sentence: how much does flight ua 281 from boston to denver cost
True tags: ADV ADV AUX NOUN PROPN NUM ADP PROPN ADP PROPN VERB
Predicted tags: ADV ADV AUX NOUN PROPN PROPN ADP PROPN ADP PROPN VERB

Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	1.00	1.00	2
accuracy			0.91	11
macro avg	0.96	0.86	0.84	11
weighted avg	0.93	0.91	0.87	11

Sentence: does flight dl <unk> from philadelphia to denver fly on saturdays
True tags: AUX NOUN PROPN PROPN ADP PROPN ADP PROPN VERB ADP PROPN
Predicted tags: AUX NOUN PROPN ADV ADP PROPN ADP PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.80	0.89	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	0.00	1.00	0.00	0
accuracy			0.91	11
macro avg	0.83	0.97	0.81	11
weighted avg	1.00	0.91	0.95	11

Sentence: what airline is dl <unk>
True tags: DET NOUN AUX PROPN NUM
Predicted tags: PRON NOUN AUX PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.60	5
macro avg	0.75	0.67	0.44	5
weighted avg	0.90	0.60	0.53	5

Sentence: what first class airplane goes from philadelphia to san francisco and stops in dallas in the afternoon on monday
True tags: DET ADV NOUN NOUN VERB ADP PROPN ADP PROPN PROPN CCONJ VERB ADP PROPN ADP DET NOUN ADP NOUN
Predicted tags: PRON ADJ NOUN NOUN PROPN ADP PROPN ADP PROPN PROPN CCONJ PROPN ADP PROPN ADP DET NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	1.00	0.00	0.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.79	19
macro avg	0.74	0.72	0.50	19
weighted avg	0.93	0.79	0.76	19

Sentence: what planes are used by twa
True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: PRON NOUN AUX VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.83	6
macro avg	0.86	0.86	0.71	6
weighted avg	1.00	0.83	0.83	6

Sentence: <unk> leaving denver to san francisco before 10 am what type of aircraft is used
True tags: VERB VERB PROPN ADP PROPN PROPN ADP NUM NOUN DET NOUN ADP NOUN AUX VERB
Predicted tags: AUX VERB PROPN ADP PROPN PROPN ADP NUM NOUN PRON NOUN ADP NOUN VERB VERB
Classification Report:
precision   recall f1-score   support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.67	0.67	0.67	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.80	15
macro avg	0.71	0.71	0.58	15
weighted avg	0.87	0.80	0.80	15

Sentence: what kinds of planes are used by midway airlines
True tags: DET NOUN ADP NOUN AUX VERB ADP NOUN PROPN
Predicted tags: PRON AUX ADP NOUN VERB VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	0.33	0.50	3
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.00	0.00	0.00	1
accuracy			0.56	9
macro avg	0.57	0.62	0.40	9
weighted avg	0.78	0.56	0.54	9

Sentence: what type of aircraft leaves from boston to washington dc at 9 am during a weekday
True tags: DET NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP DET NOUN
Predicted tags: PRON NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADJ DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy		0.88	16	
macro avg	0.75	0.91	0.69	16
weighted avg	1.00	0.88	0.92	16

Sentence: what type of aircraft are flying from cleveland to dallas before noon
True tags: DET NOUN ADP NOUN AUX VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN ADP NOUN VERB VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy		0.83	12	
macro avg	0.79	0.71	0.52	12
weighted avg	0.96	0.83	0.81	12

Sentence: what airplane types fly from pittsburgh to baltimore
True tags: DET NOUN NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0

	precision	recall	f1-score	support
accuracy		0.88	8	
macro avg	0.83	0.83	0.67	8
weighted avg	1.00	0.88	0.88	8

Sentence: what is ground transportation between the san francisco airport and the city
True tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN CCONJ DET PROPN
Predicted tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN CCONJ DET PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights on united leave la guardia for san jose and arrive around 10 pm
True tags: DET NOUN ADP PROPN VERB PROPN PROPN ADP PROPN PROPN CCONJ VERB ADP NUM NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN PROPN ADP PROPN PROPN CCONJ VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.87	15
macro avg	0.85	0.81	0.70	15
weighted avg	0.94	0.87	0.86	15

Sentence: what ground transportation is available from the denver airport to downtown denver
True tags: DET NOUN NOUN AUX ADJ ADP DET PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP DET PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy		0.92	12	
macro avg	0.86	0.93	0.81	12
weighted avg	1.00	0.92	0.94	12

Sentence: list us air flights leaving saturday from charlotte airport around 1 pm
True tags: VERB PROPN PROPN NOUN VERB NOUN ADP PROPN PROPN ADP NUM NOUN
Predicted tags: VERB PROPN PROPN NOUN VERB NOUN ADP PROPN PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
accuracy		1.00	12	
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: could you tell me about ground transportation arrangements from the dallas airport to downtown dallas
True tags: AUX PRON VERB PRON ADP NOUN NOUN NOUN ADP DET PROPN PROPN ADP NOUN PROPN
Predicted tags: AUX PRON VERB PRON ADP NOUN NOUN NOUN ADP DET PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy		1.00	15	
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: please list the flights taking off and landing on general mitchell international airport
True tags: INTJ VERB DET NOUN VERB ADV CCONJ NOUN ADP PROPN PROPN PROPN PROPN
Predicted tags: INTJ VERB DET NOUN PROPN PROPN CCONJ PROPN ADP PROPN PROPN PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.57	1.00	0.73	4
2	1.00	1.00	1.00	1
3	1.00	0.50	0.67	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.77	13
macro avg	0.95	0.75	0.76	13
weighted avg	0.87	0.77	0.74	13

Sentence: i <unk> like to fly from cleveland to indianapolis tomorrow morning as early as possible what <unk> available
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN ADP ADV ADP ADJ PRON AUX ADJ
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN ADP ADJ ADP ADJ PRON AUX ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	0.67	1.00	0.80	2
8	1.00	1.00	1.00	2
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
accuracy			0.94	18
macro avg	0.96	0.89	0.87	18
weighted avg	0.96	0.94	0.92	18

Sentence: i need a flight from logan to atlanta this afternoon
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.94	0.92	0.91	10
weighted avg	0.93	0.90	0.89	10

Sentence: give me the latest flight tomorrow on american airlines from milwaukee to tacoma
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like to fly from columbus to nashville tomorrow morning
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: and what is the last flight from denver to boston for tomorrow evening
True tags: CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN

Predicted tags: CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list evening flights tomorrow from phoenix to detroit
True tags: VERB NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the flights on continental from indianapolis to san diego in the afternoon tomorrow
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP DET NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	15

	precision	recall	f1-score	support
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: how many flights does northwest have leaving dulles
True tags: ADV ADJ NOUN AUX PROPN VERB VERB PROPN
Predicted tags: ADV ADJ NOUN AUX PROPN VERB VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.94	0.92	0.91	8
weighted avg	0.92	0.88	0.87	8

Sentence: nonstop flights from new york city to las vegas on sunday
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from los angeles to pittsburgh which arrive at pittsburgh on monday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN DET VERB ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1

| | 6 | 1.00 | 1.00 | 1.00 | 1 |

	precision	recall	f1-score	support
accuracy			0.93	15
macro avg	0.92	0.97	0.93	15
weighted avg	0.97	0.93	0.94	15

Sentence: show me all flights from philadelphia to dallas which arrive in dallas before 3 <unk> pm on saturday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN DET VERB ADP PROPN ADP NUM ADV NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.83	0.91	6
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.94	18
macro avg	0.94	0.98	0.95	18
weighted avg	0.97	0.94	0.95	18

Sentence: what flights leave pittsburgh and arrive in los angeles after 5 pm on thursday
True tags: DET NOUN VERB PROPN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN ADP NOUN
Predicted tags: PRON NOUN VERB PROPN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.88	0.88	0.75	14
weighted avg	1.00	0.93	0.93	14

Sentence: what is the earliest flight arriving in charlotte from <unk> louis on friday
True tags: PRON AUX DET ADJ NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what flights do you have from boston to pittsburgh on wednesday of next week after 6 pm
True tags: DET NOUN AUX PRON VERB ADP PROPN ADP PROPN ADP NOUN ADP ADJ NOUN ADP NUM NOUN
Predicted tags: PRON NOUN AUX PRON VERB ADP PROPN ADP PROPN ADP NOUN ADP ADJ NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	17
macro avg	0.94	0.89	0.85	17
weighted avg	0.97	0.94	0.92	17

Sentence: i <unk> like a flight from <unk> petersburg to miami on that next thursday
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP DET ADJ NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP ADP ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.97	0.94	0.94	14
weighted avg	0.95	0.93	0.92	14

Sentence: i <unk> like to travel from kansas city to chicago next wednesday
True tags: PRON AUX VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like to fly from boston to philadelphia next thursday
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

12	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: tell me about flights from atlanta to charlotte next monday
True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights go from pittsburgh to baltimore after 8 <unk> next wednesday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV ADJ NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.89	0.89	0.78	12
weighted avg	1.00	0.92	0.92	12

Sentence: give me the fares for round trip flights from cleveland to miami next wednesday
True tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN ADJ NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i want to leave chicago next tuesday and arrive in detroit around 6 pm
True tags: PRON VERB PART VERB PROPN ADJ NOUN CCONJ VERB ADP PROPN ADP NUM NOUN
Predicted tags: PRON VERB PART VERB PROPN ADJ NOUN CCONJ VERB ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i want a flight from montreal to washington dc
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me the flights leaving from atlanta for washington dc on thursday morning
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me flights from denver to dc on wednesday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please give me the flights from san francisco to washington dc
True tags: INTJ VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: INTJ VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the prices of all flights from atlanta to washington dc
True tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the latest flight on wednesday going from atlanta to washington dc
True tags: PRON AUX DET ADJ NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list flights from toronto to washington dc saturday am
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to see the flights from atlanta to washington dc
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i <unk> sorry i want to book a flight from atlanta to denver colorado
True tags: PRON AUX ADJ PRON VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PRON VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2

	precision	recall	f1-score	support
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	0.00	1.00	0.00	0
accuracy			0.86	14
macro avg	0.85	0.85	0.73	14
weighted avg	0.95	0.86	0.86	14

Sentence: i would like a list of round trip flights between indianapolis and orlando florida for the twenty seventh and the twenty eighth of december
True tags: PRON AUX VERB DET NOUN ADP NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN ADP DET NUM ADJ CCONJ DET NUM ADJ ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN ADP DET NUM ADJ CCONJ DET NUM ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
10	1.00	1.00	1.00	2
accuracy			1.00	24
macro avg	1.00	1.00	1.00	24
weighted avg	1.00	1.00	1.00	24

Sentence: may i have a listing of flights on monday from minneapolis to long beach california please
True tags: AUX PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN INTJ
Predicted tags: NOUN PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.94	16
macro avg	0.97	0.88	0.86	16
weighted avg	0.95	0.94	0.91	16

Sentence: please give all flights from dallas to oakland california monday
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: on tuesday the twenty third flights from philadelphia to san francisco on american airlines
True tags: ADP NOUN DET NUM ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN DET NUM ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what is the cheapest first class fare from cleveland to miami on us air on february twenty fourth
True tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NUM ADJ
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NUM PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.67	0.80	3
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	18
macro avg	0.97	0.96	0.96	18
weighted avg	0.96	0.94	0.94	18

Sentence: cheapest round trip fare from or indianapolis to orlando on december twenty fifth
True tags: ADJ NOUN NOUN NOUN ADP CCONJ PROPN ADP PROPN ADP NOUN NUM ADJ
Predicted tags: ADJ NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NUM ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
7	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.94	0.83	0.80	13
weighted avg	0.95	0.92	0.89	13

Sentence: i would like to fly from dallas to denver on the morning of august twenty seventh leaving at <unk>
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN NUM ADJ VERB ADP NUM
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN NUM ADJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
12	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.97	0.95	0.95	19
weighted avg	0.96	0.95	0.94	19

Sentence: give me the flights from indianapolis to orlando on december twenty seventh and twenty eighth
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NUM ADJ CCONJ NUM ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NUM ADJ CCONJ NUM ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
9	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: i would like to book a flight going from tampa to seattle on may twenty sixth i would like to stop in milwaukee on the way
True tags: PRON AUX VERB PART VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN NUM ADJ PRON AUX VERB PART VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX VERB PART VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN NUM ADJ PRON AUX VERB PART VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	2

```
    9       1.00      1.00      1.00        1
   12       1.00      1.00      1.00        2

accuracy                        1.00       26
macro avg       1.00      1.00      1.00       26
weighted avg       1.00      1.00      1.00       26
```

Sentence: what is the cheapest one way fare from san francisco to boston on wednesday august twenty first
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM ADJ
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM ADJ
Classification Report:

```
          precision    recall  f1-score   support

      1       1.00      1.00      1.00        3
      2       1.00      1.00      1.00        3
      3       1.00      1.00      1.00        4
      5       1.00      1.00      1.00        1
      6       1.00      1.00      1.00        1
      7       1.00      1.00      1.00        2
      8       1.00      1.00      1.00        1
      9       1.00      1.00      1.00        2

accuracy                        1.00       17
macro avg       1.00      1.00      1.00       17
weighted avg       1.00      1.00      1.00       17
```

Sentence: which flights are available from tacoma to san jose in the morning on april twenty second
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP NOUN NUM ADJ
Predicted tags: DET NOUN VERB ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP NOUN NUM ADJ
Classification Report:

```
          precision    recall  f1-score   support

      1       1.00      1.00      1.00        3
      2       1.00      1.00      1.00        4
      3       1.00      1.00      1.00        3
      4       0.00      1.00      0.00        0
      5       1.00      1.00      1.00        2
      7       1.00      1.00      1.00        2
      8       1.00      0.00      0.00        1
      9       1.00      1.00      1.00        1

accuracy                        0.94       16
macro avg       0.88      0.88      0.75       16
weighted avg       1.00      0.94      0.94       16
```

Sentence: list all round trip flights between indianapolis and orlando on the twenty seventh of december
True tags: VERB DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN ADP DET NUM ADJ ADP NOUN
Predicted tags: VERB DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN ADP DET NUM ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: what is hp
True tags: PRON AUX PROPN
Predicted tags: PRON AUX PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: define airline us
True tags: VERB NOUN PROPN
Predicted tags: VERB NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: code ff
True tags: NOUN PROPN
Predicted tags: NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
accuracy			1.00	2
macro avg	1.00	1.00	1.00	2
weighted avg	1.00	1.00	1.00	2

Sentence: from las vegas to new york a nonstop twa and fare
True tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN PROPN CCONJ NOUN
Predicted tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN PROPN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: airline that stands for dl
True tags: NOUN ADP VERB ADP PROPN
Predicted tags: NOUN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: list round trip flights between boston and oakland using twa
True tags: VERB NOUN NOUN NOUN ADP PROPN CCONJ PROPN VERB PROPN

Predicted tags: VERB NOUN NOUN NOUN ADP PROPN CCONJ PROPN VERB PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i <unk> like a twa flight from las vegas to new york nonstop
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Predicted tags: PRON AUX VERB DET PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what airline is <unk>
True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
accuracy			0.50	4
macro avg	0.70	0.60	0.33	4
weighted avg	0.88	0.50	0.42	4

Sentence: what airline is dl
True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN AUX PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.75	4
macro avg	0.80	0.80	0.60	4
weighted avg	1.00	0.75	0.75	4

Sentence: find a flight between denver and oakland the flight should leave in the afternoon and arrive near 5 pm the flight should also be nonstop
True tags: VERB DET NOUN ADP PROPN CCONJ PROPN DET NOUN AUX VERB ADP DET NOUN CCONJ VERB ADP NUM NOUN DET NOUN AUX ADV AUX NOUN
Predicted tags: VERB DET NOUN ADP PROPN CCONJ PROPN DET NOUN NOUN VERB ADP DET NOUN CCONJ VERB PROPN NUM NOUN DET NOUN NOUN ADJ NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	0.75	1.00	0.86	6
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	4
7	0.00	1.00	0.00	0
8	1.00	0.00	0.00	3
9	0.50	1.00	0.67	1
10	1.00	1.00	1.00	2
11	1.00	0.00	0.00	1
accuracy			0.80	25
macro avg	0.79	0.77	0.61	25
weighted avg	0.89	0.80	0.75	25

Sentence: i need a flight on american airlines from miami to chicago that arrives around 5 pm
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: flights from kansas city to cleveland on wednesday arriving before 5 pm
True tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights depart baltimore on friday and arrive in san francisco by 8 pm
True tags: DET NOUN VERB PROPN ADP NOUN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN
Predicted tags: PRON NOUN VERB PROPN ADP NOUN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	14

| | macro avg | 0.88 | 0.88 | 0.75 | 14 |
| weighted avg | 1.00 | 0.93 | 0.93 | 14 |

Sentence: i <unk> like a nonstop flight from atlanta to baltimore that <unk> in around 7 pm
True tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP VERB ADP ADP NUM NOUN
Predicted tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP AUX ADP ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
9	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.94	0.94	0.92	16
weighted avg	0.97	0.94	0.94	16

Sentence: what nonstop flights between boston and washington arrive after 5 <unk> pm
True tags: DET NOUN NOUN ADP PROPN CCONJ PROPN VERB ADP NUM ADV NOUN
Predicted tags: PRON NOUN NOUN ADP PROPN CCONJ PROPN VERB ADP NUM ADV NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.89	0.89	0.78	12
weighted avg	1.00	0.92	0.92	12

Sentence: all flights pittsburgh to baltimore on thursday arrival by 10 am
True tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NOUN

Predicted tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all flights direct and connecting from boston to pittsburgh that arrive in pittsburgh before 10 am

True tags: VERB PRON DET NOUN ADJ CCONJ VERB ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM NOUN

Predicted tags: VERB PRON DET NOUN ADJ CCONJ VERB ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	18
macro avg	1.00	1.00	1.00	18
weighted avg	1.00	1.00	1.00	18

Sentence: cleveland to miami on wednesday arriving before 4 pm

True tags: PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN

Predicted tags: NOUN ADP PROPN ADP NOUN VERB ADP NUM NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1

		accuracy		0.89	9
macro avg	0.93	0.90	0.89	9	
weighted avg	0.93	0.89	0.88	9	

Sentence: show me airlines between boston and san francisco
True tags: VERB PRON NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the airlines that fly from san francisco to boston
True tags: VERB PRON DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what airlines fly from boston to denver
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1

| | 6 | 0.00 | 1.00 | 0.00 | 0 |

	precision	recall	f1-score	support
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.86	0.86	7

Sentence: what airlines have flights from baltimore to seattle
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.83	0.83	0.67	8
weighted avg	1.00	0.88	0.88	8

Sentence: what airlines have flights from boston to philadelphia that leave before 630 am
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON NOUN VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: are there any airlines that have flights from boston to philadelphia that leave before 630 am
True tags: VERB PRON DET NOUN ADP VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: AUX PRON DET NOUN ADP VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.88	0.96	0.85	16
weighted avg	1.00	0.94	0.96	16

Sentence: show me airlines that have flights between toronto and detroit between detroit and <unk> louis and between <unk> louis and toronto
True tags: VERB PRON NOUN ADP VERB NOUN ADP PROPN CCONJ PROPN ADP PROPN CCONJ PROPN PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Predicted tags: VERB PRON NOUN ADP VERB NOUN ADP PROPN CCONJ PROPN ADP PROPN CCONJ PROPN PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	8
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	4
accuracy			1.00	21
macro avg	1.00	1.00	1.00	21
weighted avg	1.00	1.00	1.00	21

Sentence: which airlines fly between boston and baltimore
True tags: DET NOUN VERB ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1

```
     accuracy                      1.00        7
    macro avg      1.00     1.00    1.00        7
 weighted avg      1.00     1.00    1.00        7
```

Sentence: does any airline have an early afternoon flight from boston to pittsburgh
True tags: AUX DET NOUN VERB DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: AUX DET NOUN VERB DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

        1      1.00      1.00      1.00        2
        2      1.00      1.00      1.00        2
        3      1.00      1.00      1.00        3
        4      1.00      1.00      1.00        1
        5      1.00      1.00      1.00        2
        7      1.00      1.00      1.00        1
        8      1.00      1.00      1.00        1

 accuracy                         1.00       12
 macro avg      1.00      1.00    1.00       12
weighted avg     1.00      1.00    1.00       12
```

Sentence: please show me airlines with flights from philadelphia to dallas
True tags: INTJ VERB PRON NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

        1      1.00      1.00      1.00        2
        2      1.00      1.00      1.00        3
        3      1.00      1.00      1.00        2
        4      1.00      1.00      1.00        1
        6      1.00      1.00      1.00        1
       13      1.00      1.00      1.00        1

 accuracy                         1.00       10
 macro avg      1.00      1.00    1.00       10
weighted avg     1.00      1.00    1.00       10
```

Sentence: which airlines fly from boston to san francisco
True tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

```
            precision   recall  f1-score   support

        1      1.00      1.00      1.00        3
        2      1.00      1.00      1.00        2
```

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: which airlines have flights between charlotte and newark
True tags: DET NOUN VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me all flights from san francisco to new york nonstop
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me nonstop flights from toronto to <unk> petersburg
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all round trip flights from miami to new york nonstop
True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: nonstop flights seattle to kansas city
True tags: NOUN NOUN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i want to fly from atlanta to philadelphia nonstop
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest nonstop flight from washington to san francisco
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: please list nonstop flights from las vegas to new york on america west
True tags: INTJ VERB NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: INTJ VERB NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.83	0.91	6
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.93	0.97	0.94	13
weighted avg	0.95	0.92	0.93	13

Sentence: show me first class round trip flights from new york to miami i want the cheapest first class fare please

True tags: VERB PRON ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET ADJ ADJ NOUN NOUN INTJ
Predicted tags: VERB PRON ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET ADJ ADJ NOUN NOUN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	6
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	3
13	1.00	1.00	1.00	1
accuracy			1.00	20
macro avg	1.00	1.00	1.00	20
weighted avg	1.00	1.00	1.00	20

Sentence: show me which flights from san francisco to pittsburgh on a monday are first class
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN AUX ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN VERB ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.94	0.88	0.83	15
weighted avg	0.97	0.93	0.91	15

Sentence: give me flights from baltimore to denver on united that offer first class
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: first class flights pittsburgh to newark monday morning
True tags: ADJ NOUN NOUN PROPN ADP PROPN NOUN NOUN
Predicted tags: ADJ NOUN NOUN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
7	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: first class fares from dallas to baltimore please
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN INTJ
Predicted tags: ADJ NOUN NOUN ADP PROPN ADP PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me all united airlines first class flights
True tags: VERB PRON DET PROPN PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET PROPN PROPN ADJ NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: first class price san francisco pittsburgh round trip
True tags: ADJ NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Predicted tags: ADJ NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
7	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: how much is a first class ticket from baltimore to san francisco
True tags: ADV ADV AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: ADV ADV AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	2
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: first class american flight from philadelphia to dallas on wednesday
True tags: ADJ NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: ADJ NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
7	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights first class on american airlines between dallas and philadelphia
True tags: VERB NOUN ADJ NOUN ADP PROPN PROPN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN ADJ NOUN ADP PROPN PROPN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what are the first class fares from dallas to baltimore
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me one way flights from tampa to <unk> louis departing before 10 am first class
True tags: VERB PRON NUM NOUN NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN ADJ NOUN

Predicted tags: VERB PRON NUM NOUN NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN ADJ NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what flights leave san francisco on monday night and arrive at atlanta later in the evening

True tags: DET NOUN VERB PROPN PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN ADJ ADP DET NOUN

Predicted tags: PRON NOUN VERB PROPN PROPN ADP NOUN PROPN CCONJ VERB ADP PROPN PROPN ADP DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.81	16
macro avg	0.82	0.78	0.66	16
weighted avg	0.93	0.81	0.81	16

Sentence: please list all flights into denver before noon on united airlines and northwest airlines

True tags: INTJ VERB DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN CCONJ PROPN PROPN

Predicted tags: INTJ VERB DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN CCONJ PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what are the coach fares for flights from pittsburgh to denver
True tags: PRON AUX DET PROPN NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET PROPN NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what are the flights on tuesday october first from atlanta to baltimore
True tags: PRON AUX DET NOUN ADP NOUN PROPN ADJ ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN PROPN ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what are the coach fares from la to charlotte monday morning

True tags: PRON AUX DET PROPN NOUN ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX DET PROPN NOUN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me dallas ground transport
True tags: VERB PRON PROPN NOUN NOUN
Predicted tags: VERB PRON PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: show me ground transportation in denver
True tags: VERB PRON NOUN NOUN ADP PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what ground transport is available in minneapolis

True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7
weighted avg	1.00	0.86	0.86	7

Sentence: please show me ground transportation in denver
True tags: INTJ VERB PRON NOUN NOUN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what kind of ground transportation is there in dallas
True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN
Predicted tags: PRON NOUN ADP NOUN NOUN AUX PRON ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.78	9
macro avg	0.79	0.71	0.52	9

weighted avg   0.94   0.78   0.74   9

Sentence: what ground transportation is available in charlotte
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7
weighted avg	1.00	0.86	0.86	7

Sentence: what <unk> the ground transportation like at pittsburgh
True tags: PRON AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.88	0.88	0.75	8
weighted avg	1.00	0.88	0.88	8

Sentence: ground transportation in baltimore
True tags: NOUN NOUN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	4

	precision	recall	f1-score	support
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: what ground transportation is there in dallas
True tags: DET NOUN NOUN AUX PRON ADP PROPN
Predicted tags: PRON NOUN NOUN AUX PRON ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.92	0.83	0.78	7
weighted avg	0.93	0.86	0.81	7

Sentence: what ground transportation is available in baltimore
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7
weighted avg	1.00	0.86	0.86	7

Sentence: ground transport phoenix
True tags: NOUN NOUN PROPN
Predicted tags: NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.67	1.00	0.80	2
accuracy			0.67	3
macro avg	0.83	0.50	0.40	3
weighted avg	0.78	0.67	0.53	3

Sentence: show me information on ground transportation for dallas
True tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like an american flight from toronto to san diego with a stopover in denver please
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN INTJ
Predicted tags: PRON AUX VERB DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: can i go from boston to san francisco with a stopover in denver
True tags: AUX PRON VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN
Predicted tags: AUX PRON VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: please show me flights from boston to denver with a stopover in philadelphia
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me the flights from new york to los angeles with stop in milwaukee
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.92	0.92	0.89	14
weighted avg	0.96	0.93	0.93	14

Sentence: are there any flights from denver to pittsburgh with stops in atlanta

True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN

Predicted tags: AUX PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.86	0.86	0.71	12
weighted avg	1.00	0.92	0.92	12

Sentence: are there any flights from boston to san francisco which stop in denver

True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB ADP PROPN

Predicted tags: AUX PRON DET NOUN ADP PROPN ADP PROPN PROPN DET VERB ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	0.50	1.00	0.67	1
6	1.00	0.50	0.67	2
8	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.79	0.86	0.71	13
weighted avg	0.96	0.85	0.87	13

Sentence: all do you have a flight from washington to boston that stops in philadelphia

True tags: DET AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN

Predicted tags: DET AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	0.50	1.00	0.67	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.93	0.93	0.90	14
weighted avg	0.96	0.93	0.93	14

Sentence: show me the flights from san diego to newark by way of houston
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.94	0.96	0.94	13
weighted avg	0.95	0.92	0.93	13

Sentence: find a flight on american airlines from boston to san francisco that makes a stopover in denver
True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN ADP VERB DET NOUN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN ADP VERB DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: i <unk> looking for a flight that goes from ontario to westchester and stops in chicago

True tags: PRON AUX VERB ADP DET NOUN ADP VERB ADP PROPN ADP
PROPN CCONJ VERB ADP PROPN
Predicted tags: PRON AUX VERB ADP DET NOUN ADP VERB ADP PROPN ADP
PROPN CCONJ PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	1
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.97	0.96	0.96	16
weighted avg	0.95	0.94	0.94	16

Sentence: list the flights from philadelphia to san francisco via dallas
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB
PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.90	0.93	0.89	10
weighted avg	0.95	0.90	0.91	10

Sentence: are there any flights from denver to atlanta with stops in pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP
PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP
PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.86	0.86	0.71	12
weighted avg	1.00	0.92	0.92	12

Sentence: i need a flight from baltimore to seattle that stops in minneapolis
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.50	1.00	0.67	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.92	0.92	0.89	12
weighted avg	0.96	0.92	0.92	12

Sentence: i would like a flight that leaves on friday from philadelphia to dallas that makes a stop in atlanta
True tags: PRON AUX VERB DET NOUN ADP VERB ADP NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN ADP PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP VERB ADP NOUN ADP PROPN ADP PROPN ADP NOUN DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	6
3	0.75	1.00	0.86	3
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.96	0.95	0.95	19
weighted avg	0.96	0.95	0.95	19

Sentence: list flights from philadelphia to dallas that stop in atlanta
True tags: VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN

Classification Report:
```
          precision    recall  f1-score   support

       1       1.00      1.00      1.00         3
       2       1.00      1.00      1.00         4
       3       1.00      1.00      1.00         1
       4       1.00      1.00      1.00         2

accuracy                           1.00        10
macro avg      1.00      1.00      1.00        10
weighted avg   1.00      1.00      1.00        10
```

Sentence: what is the available ground transportation between san francisco and downtown
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN CCONJ NOUN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN CCONJ NOUN
Classification Report:
```
          precision    recall  f1-score   support

       1       1.00      1.00      1.00         2
       2       1.00      1.00      1.00         1
       3       1.00      1.00      1.00         3
       5       1.00      1.00      1.00         1
       6       1.00      1.00      1.00         1
       7       1.00      1.00      1.00         1
       8       1.00      1.00      1.00         1
      10       1.00      1.00      1.00         1

accuracy                           1.00        11
macro avg      1.00      1.00      1.00        11
weighted avg   1.00      1.00      1.00        11
```

Sentence: what ground transportation is there from the airport in atlanta to downtown
True tags: DET NOUN NOUN VERB PRON ADP DET NOUN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN NOUN AUX PRON ADP DET NOUN ADP PROPN ADP NOUN
Classification Report:
```
          precision    recall  f1-score   support

       1       1.00      1.00      1.00         1
       2       1.00      1.00      1.00         3
       3       1.00      1.00      1.00         4
       4       1.00      0.00      0.00         1
       5       1.00      0.50      0.67         2
       6       0.50      1.00      0.67         1
       8       0.00      1.00      0.00         0

accuracy                           0.83        12
```

| | macro avg | 0.79 | 0.79 | 0.62 | 12 |
| | weighted avg | 0.96 | 0.83 | 0.83 | 12 |

Sentence: what flights go from dallas to denver leaving after 3 pm
True tags: DET NOUN VERB ADP PROPN ADP PROPN VERB ADP NUM NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.86	0.86	0.71	11
weighted avg	1.00	0.91	0.91	11

Sentence: can you list all flights from chicago to <unk> louis that depart after 12 noon
True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP VERB ADP NUM NOUN
Predicted tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: is there a flight between philadelphia and denver that leaves philadelphia around 2 <unk> in the afternoon
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP VERB PROPN ADP NUM ADV ADP DET NOUN
Predicted tags: AUX PRON DET NOUN ADP PROPN CCONJ PROPN ADP VERB PROPN ADP NOUN ADV ADP DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.88	17
macro avg	0.87	0.85	0.75	17
weighted avg	0.96	0.88	0.88	17

Sentence: what flights leaving pittsburgh arrive in denver and leave after say 6 <unk> at night
True tags: DET NOUN VERB PROPN VERB ADP PROPN CCONJ VERB ADP VERB NUM ADV ADP NOUN
Predicted tags: PRON NOUN VERB PROPN VERB ADP PROPN CCONJ VERB ADP NOUN NUM ADV ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	0.50	0.50	0.50	2
4	1.00	0.75	0.86	4
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			0.80	15
macro avg	0.80	0.81	0.68	15
weighted avg	0.89	0.80	0.80	15

Sentence: dallas to houston after <unk> am
True tags: PROPN ADP PROPN ADP NUM NOUN
Predicted tags: PROPN ADP PROPN ADP ADV NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
9	1.00	0.00	0.00	1
11	0.00	1.00	0.00	0
accuracy			0.83	6
macro avg	0.80	0.80	0.60	6
weighted avg	1.00	0.83	0.83	6

Sentence: is there a flight around 3 pm from charlotte to minneapolis
True tags: VERB PRON DET NOUN ADP NUM NOUN ADP PROPN ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP NUM NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.88	0.88	0.75	11
weighted avg	1.00	0.91	0.91	11

Sentence: i like to see the information for flights from pittsburgh to san francisco leaving pittsburgh after 12 pm
True tags: PRON VERB PART VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB PROPN ADP NUM NOUN
Predicted tags: PRON VERB PART VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	18
macro avg	1.00	1.00	1.00	18
weighted avg	1.00	1.00	1.00	18

Sentence: a listing of all flights from boston to baltimore before 10 am on thursday

True tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Predicted tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i <unk> like a flight from san diego to toronto on alaska airlines leaving around 1 pm
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: i want a flight from atlanta to washington that leaves after 3 pm
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list all flights going from boston to atlanta on wednesday after 6 <unk> pm on wednesday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM ADV NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: i need flight information for a flight departing from cleveland to milwaukee wednesday after 6 pm
True tags: PRON VERB NOUN NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what flights go from boston to denver before 10 am
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: list all flights from boston to atlanta after 6 <unk> pm on wednesday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> looking for flights from pittsburgh to philadelphia leaving before 9 am
True tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Predicted tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list all flights going from boston to atlanta before 7 am on thursday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i need flight information for flights departing from cleveland to milwaukee on wednesday after 5 pm
True tags: PRON VERB NOUN NOUN ADP NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: can you find me another flight from cincinnati to new york on saturday before 6 pm
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NUM NOUN
Predicted tags: AUX PRON VERB PRON PRON NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.67	1.00	0.80	2
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.96	0.88	0.85	16
weighted avg	0.96	0.94	0.91	16

Sentence: i would like a flight from san francisco to pittsburgh on friday morning after 10 <unk>
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NUM ADV
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NUM ADV
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: list all flights going from boston to atlanta before 5 <unk> am on thursday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what is the last flight from baltimore to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what <unk> the latest flight from san jose to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the earliest flight from pittsburgh to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show first flight from philadelphia to dallas
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what <unk> the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9

```
        macro avg        1.00      1.00      1.00        9
     weighted avg        1.00      1.00      1.00        9
```

Sentence: what is the shortest flight from milwaukee to <unk> petersburg
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

```
              precision    recall  f1-score   support

           1       1.00      1.00      1.00         3
           2       1.00      1.00      1.00         2
           3       1.00      1.00      1.00         1
           5       1.00      1.00      1.00         1
           6       1.00      1.00      1.00         1
           7       1.00      1.00      1.00         1
           8       1.00      1.00      1.00         1

    accuracy                           1.00        10
   macro avg       1.00      1.00      1.00        10
weighted avg       1.00      1.00      1.00        10
```

Sentence: shortest evening flight from tampa to cincinnati
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

```
              precision    recall  f1-score   support

           1       1.00      1.00      1.00         2
           2       1.00      1.00      1.00         2
           3       1.00      1.00      1.00         2
           4       0.00      1.00      0.00         0
           7       1.00      0.00      0.00         1

    accuracy                           0.86         7
   macro avg       0.80      0.80      0.60         7
weighted avg       1.00      0.86      0.86         7
```

Sentence: what is the earliest flight you have leaving boston heading to philadelphia
True tags: PRON AUX DET ADJ NOUN PRON VERB VERB PROPN VERB ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN PRON VERB VERB PROPN NOUN ADP PROPN
Classification Report:

```
              precision    recall  f1-score   support

           1       1.00      1.00      1.00         2
           2       1.00      1.00      1.00         1
           3       0.50      1.00      0.67         1
           4       1.00      0.67      0.80         3
           5       1.00      1.00      1.00         1
```

	precision	recall	f1-score	support
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.94	0.96	0.93	12
weighted avg	0.96	0.92	0.92	12

Sentence: what is the earliest flight from boston to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: flights from denver to westchester county new york weekdays
True tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
7	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.75	0.88	0.67	9
weighted avg	1.00	0.89	0.93	9

Sentence: what is the last flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest flight leaving denver going to boston
True tags: PRON AUX DET ADJ NOUN VERB PROPN VERB ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN VERB PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the earliest flight from ontario to memphis
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the last flight leaving san francisco going to washington on friday
True tags: PRON AUX DET ADJ NOUN VERB PROPN PROPN VERB ADP PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN VERB PROPN PROPN VERB ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what is the earliest morning flight from san francisco to boston
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

```
       accuracy                        1.00        11
      macro avg      1.00     1.00     1.00       11
   weighted avg      1.00     1.00     1.00       11
```

Sentence: what <unk> the earliest flight from dallas to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

```
              precision    recall  f1-score   support

          1       1.00      1.00      1.00         2
          2       1.00      1.00      1.00         2
          3       1.00      1.00      1.00         1
          5       1.00      1.00      1.00         1
          6       1.00      1.00      1.00         1
          7       1.00      1.00      1.00         1
          8       1.00      1.00      1.00         1

   accuracy                           1.00         9
  macro avg       1.00      1.00      1.00         9
weighted avg      1.00      1.00      1.00         9
```

Sentence: i <unk> like to find the earliest flight possible from san francisco to atlanta
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADJ ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET ADJ NOUN ADJ ADP PROPN PROPN ADP PROPN
Classification Report:

```
              precision    recall  f1-score   support

          1       1.00      1.00      1.00         3
          2       1.00      1.00      1.00         2
          3       1.00      1.00      1.00         1
          4       1.00      1.00      1.00         2
          5       1.00      1.00      1.00         1
          6       1.00      1.00      1.00         1
          7       1.00      1.00      1.00         2
          8       1.00      1.00      1.00         1
         12       1.00      1.00      1.00         1

   accuracy                           1.00        14
  macro avg       1.00      1.00      1.00        14
weighted avg      1.00      1.00      1.00        14
```

Sentence: what is the latest evening flight leaving san francisco for washington
True tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP PROPN
Classification Report:

```
              precision    recall  f1-score   support
```

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the first flight from boston to atlanta and what is the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: what <unk> the cheapest one way ticket from baltimore to atlanta
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what <unk> the cheapest round trip fare between boston and washington
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest round trip fare between boston and san francisco
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the cheapest round trip fare from atlanta to pittsburgh
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN

Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest fare from baltimore to dallas in any class
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the cheapest one way fare from boston to washington
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: i <unk> interested in the cheapest fare from washington to fort worth
True tags: PRON AUX VERB ADP DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like to book a flight from denver to pittsburgh on july fifteenth i <unk> like it to be the cheapest flight
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ PRON AUX VERB PRON PART AUX DET ADJ NOUN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ PRON AUX VERB VERB PART VERB DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.60	1.00	0.75	3
5	1.00	1.00	1.00	2
6	1.00	0.67	0.80	3
7	1.00	1.00	1.00	2
8	1.00	0.67	0.80	3
12	1.00	1.00	1.00	2
accuracy			0.91	23
macro avg	0.96	0.93	0.93	23
weighted avg	0.95	0.91	0.92	23

Sentence: what is the cheapest fare from dallas to denver on delta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: can you show me the cheapest round trip flights between denver and pittsburgh
True tags: AUX PRON VERB PRON DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Predicted tags: AUX PRON VERB PRON DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what <unk> the lowest round trip fare from denver to atlanta
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to find the cheapest fare from atlanta to dallas
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP
PROPN
Predicted tags: PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP
PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: lowest fare from san francisco to los angeles
True tags: ADJ NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: ADJ NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i <unk> like the lowest fare from denver to pittsburgh
True tags: PRON AUX VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: okay i <unk> want to know the cheapest fare from atlanta to boston
True tags: INTJ PRON ADV VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.88	0.82	0.71	13
weighted avg	0.95	0.85	0.82	13

Sentence: what are the lowest one way fares from atlanta to denver
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest one way fare from any city to another
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP DET PROPN ADP DET
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.33	0.50	3
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.83	12
macro avg	0.92	0.92	0.88	12
weighted avg	0.94	0.83	0.83	12

Sentence: i <unk> like the cheapest cost fare to fort worth from boston

True tags: PRON AUX VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX VERB DET ADJ ADJ NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.94	0.94	0.92	12
weighted avg	0.96	0.92	0.92	12

Sentence: show me the cheapest one way fares from san diego to miami
True tags: VERB PRON DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights leave philadelphia for dallas and depart before noon on american airlines
True tags: DET NOUN VERB PROPN ADP PROPN CCONJ VERB ADP NOUN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB PROPN ADP PROPN CCONJ VERB ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy		0.92	13	
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: i need a flight from cleveland to dallas that leaves before noon see if too much information
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN VERB ADP ADV ADV NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN NOUN VERB VERB VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.80	0.89	5
3	0.75	1.00	0.86	3
4	0.40	0.67	0.50	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy		0.76	17	
macro avg	0.88	0.78	0.75	17
weighted avg	0.85	0.76	0.74	17

Sentence: list all flights leaving denver on continental on sunday after 2134
True tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP NUM
Predicted tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy		0.91	11	
macro avg	0.94	0.83	0.80	11
weighted avg	0.94	0.91	0.87	11

Sentence: all flights from san francisco to boston leaving before noon
True tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Predicted tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i need a flight from cincinnati to san jose leaving after 6 in the evening
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM ADP DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: flights from milwaukee to orlando one way
True tags: NOUN ADP PROPN ADP PROPN NUM NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7

weighted avg   1.00   1.00   1.00   7

Sentence: i want to fly from baltimore to dallas round trip
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: hi i want a round trip ticket to dallas
True tags: INTJ PRON VERB DET NOUN NOUN NOUN ADP PROPN
Predicted tags: VERB PRON VERB DET NOUN NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.93	0.86	0.81	9
weighted avg	0.94	0.89	0.85	9

Sentence: what would be cost of a round trip from pittsburgh to san francisco
True tags: PRON AUX AUX NOUN ADP DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX AUX VERB ADP DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	2
accuracy			0.92	13
macro avg	0.86	0.95	0.83	13
weighted avg	1.00	0.92	0.95	13

Sentence: show me round trip fares from toronto to detroit on delta northwest us air and united airlines
True tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN PROPN PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN PROPN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	8
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: give me all the flights from new york to miami round trip
True tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN NOUN NOUN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: how much is a round trip fare from nashville to seattle
True tags: ADV ADV AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: ADV ADV AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	2
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the fare going from baltimore to boston one way on november seventh
True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: show me the round trip flights between phoenix and salt lake city
True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

```
         6     1.00     1.00     1.00        1
        10     1.00     1.00     1.00        1

  accuracy                       1.00       12
 macro avg      1.00     1.00     1.00       12
weighted avg      1.00     1.00     1.00       12
```

Sentence: what is the fare going from baltimore to atlanta one way on november seventh
True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Classification Report:

```
          precision    recall f1-score   support

        1     1.00     1.00     1.00        2
        2     1.00     1.00     1.00        3
        3     1.00     1.00     1.00        3
        4     1.00     1.00     1.00        1
        5     1.00     1.00     1.00        1
        6     1.00     1.00     1.00        1
        7     1.00     1.00     1.00        1
        8     1.00     1.00     1.00        1
        9     1.00     1.00     1.00        1

  accuracy                       1.00       14
 macro avg      1.00     1.00     1.00       14
weighted avg      1.00     1.00     1.00       14
```

Sentence: now i want to see return flights from miami to new york
True tags: ADV PRON VERB PART VERB NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: ADV PRON VERB PART VERB NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

```
          precision    recall f1-score   support

        1     1.00     1.00     1.00        3
        2     1.00     1.00     1.00        2
        3     1.00     1.00     1.00        2
        4     1.00     1.00     1.00        2
        6     1.00     1.00     1.00        1
       11     1.00     1.00     1.00        1
       12     1.00     1.00     1.00        1

  accuracy                       1.00       12
 macro avg      1.00     1.00     1.00       12
weighted avg      1.00     1.00     1.00       12
```

Sentence: do you have an <unk> flight from denver to san francisco
True tags: AUX PRON VERB DET NUM NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: AUX PRON VERB DET AUX NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Sentence: i would like to book a flight from chicago to seattle on june fourth
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.96	0.89	0.87	14
weighted avg	0.95	0.93	0.90	14

Sentence: are there any flights from long beach to columbus on wednesday april sixth
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ
Predicted tags: AUX PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.92	13
macro avg	0.88	0.88	0.75	13
weighted avg	1.00	0.92	0.92	13

Sentence: i <unk> like flights going from boston to atlanta leaving on august sixth in the afternoon
True tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN ADJ ADP DET NOUN
Predicted tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN ADJ ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: i would like to find out what flights there are on friday june eleventh from <unk> petersburg to milwaukee and then from milwaukee to tacoma thank you
True tags: PRON AUX VERB PART VERB ADV DET NOUN PRON VERB ADP NOUN NOUN ADJ ADP PROPN PROPN ADP PROPN CCONJ ADV ADP PROPN ADP PROPN VERB PRON
Predicted tags: PRON AUX VERB PART VERB ADP DET NOUN PRON AUX ADP NOUN NOUN ADJ ADP PROPN PROPN ADP PROPN CCONJ VERB ADP PROPN ADP PROPN VERB PRON
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	0.83	1.00	0.91	5
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	0.75	0.75	0.75	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	3
7	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
12	1.00	1.00	1.00	1
accuracy			0.89	27
macro avg	0.92	0.89	0.85	27
weighted avg	0.91	0.89	0.86	27

Sentence: i need a flight from chicago to dallas on continental on june fifth
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like a flight on july ninth from orlando to kansas city in the afternoon
True tags: PRON AUX VERB DET NOUN ADP NOUN ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: i <unk> like to arrange a trip to baltimore on january first
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: okay and then from pittsburgh i <unk> like to travel to atlanta on september fourth
True tags: INTJ CCONJ ADV ADP PROPN PRON AUX VERB PART VERB ADP PROPN ADP NOUN ADJ
Predicted tags: PROPN CCONJ VERB ADP PROPN PRON AUX VERB PART VERB ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.92	0.73	0.68	15

weighted avg   0.89   0.80   0.73   15

Sentence: list the flights from westchester county to denver on june seventh
True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: flights from atlanta august second
True tags: NOUN ADP PROPN NOUN ADJ
Predicted tags: NOUN ADP PROPN NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: what are the flights between pittsburgh and baltimore on august tenth
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1

```
     accuracy                          1.00        11
    macro avg       1.00      1.00      1.00        11
 weighted avg       1.00      1.00      1.00        11
```

Sentence: on april first i need a flight going from phoenix to san diego
True tags: ADP NOUN ADJ PRON VERB DET NOUN VERB ADP PROPN ADP
PROPN PROPN
Predicted tags: ADP NOUN ADJ PRON VERB DET NOUN VERB ADP PROPN ADP
PROPN PROPN
Classification Report:

```
              precision    recall  f1-score   support

           1       1.00      1.00      1.00         3
           2       1.00      1.00      1.00         3
           3       1.00      1.00      1.00         2
           4       1.00      1.00      1.00         2
           5       1.00      1.00      1.00         1
           6       1.00      1.00      1.00         1
           7       1.00      1.00      1.00         1

    accuracy                          1.00        13
   macro avg       1.00      1.00      1.00        13
weighted avg       1.00      1.00      1.00        13
```

Sentence: show me a list of flights from denver to baltimore on united for august third
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP
PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
ADP PROPN ADP NOUN ADJ
Classification Report:

```
              precision    recall  f1-score   support

           1       1.00      1.00      1.00         3
           2       1.00      1.00      1.00         5
           3       1.00      1.00      1.00         3
           4       1.00      1.00      1.00         1
           5       1.00      1.00      1.00         1
           6       1.00      1.00      1.00         1
           7       1.00      1.00      1.00         1

    accuracy                          1.00        15
   macro avg       1.00      1.00      1.00        15
weighted avg       1.00      1.00      1.00        15
```

Sentence: what are the flights from san jose to nashville on thursday the twentieth
True tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
DET ADJ
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP
NOUN DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.95	0.86	0.83	13
weighted avg	0.95	0.92	0.89	13

Sentence: i need a ticket from nashville to seattle
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: how much does it cost to fly on delta from dallas to baltimore
True tags: ADV ADV AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN
Predicted tags: ADV ADV AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	1.00	1.00	2
12	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13

weighted avg   1.00   1.00   1.00   13

Sentence: what are the fares for flights from charlotte to newark on tuesday and wednesday
True tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP NOUN CCONJ NOUN
Predicted tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP NOUN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: show fares and flights from denver to oakland
True tags: VERB NOUN CCONJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN CCONJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what is the airfare between denver and pittsburgh
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	8	1.00	1.00	1.00	1
	10	1.00	1.00	1.00	1
accuracy				1.00	8
macro avg		1.00	1.00	1.00	8
weighted avg		1.00	1.00	1.00	8

Sentence: what does it cost to fly from boston to oakland on united airlines
True tags: PRON AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX PRON VERB ADP VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.75	1.00	0.86	3
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.96	0.83	0.81	13
weighted avg	0.94	0.92	0.89	13

Sentence: get saturday fares from washington to montreal
True tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me fares from atlanta to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: continental airlines on saturday from chicago to seattle
True tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: does eastern airlines fly between boston and washington
True tags: AUX PROPN PROPN VERB ADP PROPN CCONJ PROPN
Predicted tags: AUX PROPN PROPN VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like some information on a flight from denver to san francisco on united airlines
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB VERB NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1

	precision	recall	f1-score	support
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.93	0.93	0.90	16
weighted avg	0.97	0.94	0.94	16

Sentence: american airlines from denver to milwaukee
True tags: PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i need a flight delta airlines kansas city to salt lake
True tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: list the alaska airlines flights a departing from burbank
True tags: VERB DET PROPN PROPN NOUN DET VERB ADP PROPN
Predicted tags: VERB DET PROPN PROPN NOUN DET PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
accuracy			0.89	9
macro avg	0.95	0.90	0.90	9
weighted avg	0.92	0.89	0.88	9

Sentence: give me all the flights from miami to chicago on american airlines
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i <unk> like united airlines flights from denver to baltimore
True tags: PRON AUX VERB PROPN PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PROPN PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i <unk> like a flight from new york to los angeles on saturday morning on us air
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: show me the southwest airlines flights from san diego to san francisco
True tags: VERB PRON DET PROPN PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET ADJ PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.83	0.91	6
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.86	0.98	0.84	12
weighted avg	1.00	0.92	0.95	12

Sentence: what flights does american airlines have from boston to dallas
True tags: DET NOUN AUX PROPN PROPN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PROPN PROPN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.90	10

	precision	recall	f1-score	support
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: what flights go from chicago to seattle on continental airlines on saturday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.83	0.83	0.67	12
weighted avg	1.00	0.92	0.92	12

Sentence: list the flights from dallas to san francisco on american airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights go from chicago to seattle on saturday on continental airlines
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.83	0.83	0.67	12
weighted avg	1.00	0.92	0.92	12

Sentence: show me the flight classes for delta airlines
True tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: please list the flights from cincinnati to burbank on american airlines
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all the flights from indianapolis to san diego on us air
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i would like to fly delta airlines from atlanta to pittsburgh
True tags: PRON AUX VERB PART VERB PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights are available wednesday afternoon from denver to san francisco
True tags: DET NOUN AUX ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN AUX ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.86	0.86	0.71	11

weighted avg   1.00   0.91   0.91   11

Sentence: show me all flights to philadelphia in the evening
True tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: flights from chicago to denver on continental on saturday morning
True tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights from san jose to dallas on friday afternoon
True tags: DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: what are the flights and prices from la to charlotte for monday morning
True tags: PRON AUX DET NOUN CCONJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN CCONJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: on friday night i would like a flight from newark to los angeles
True tags: ADP NOUN NOUN PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN PROPN PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.95	0.95	13
weighted avg	0.94	0.92	0.92	13

Sentence: <unk> paul to kansas city friday night
True tags: PROPN PROPN ADP PROPN PROPN NOUN NOUN
Predicted tags: AUX PROPN ADP PROPN PROPN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	1
3	1.00	0.50	0.67	2
8	0.00	1.00	0.00	0

	precision	recall	f1-score	support
accuracy			0.71	7
macro avg	0.69	0.81	0.60	7
weighted avg	0.86	0.71	0.76	7

Sentence: show me the flights from philadelphia to baltimore in the morning
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights from chicago to denver in the morning
True tags: DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.80	0.90	0.73	9
weighted avg	1.00	0.89	0.93	9

Sentence: now i need a flight from detroit to san diego leaving tuesday evening
True tags: ADV PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB NOUN NOUN
Predicted tags: ADV PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: how about flights from dallas to atlanta on wednesday morning
True tags: ADV ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: ADV ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
11	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the evening flights from baltimore to atlanta
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: which flights go from pittsburgh to atlanta in the evening
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: DET NOUN VERB ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2

	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2

accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: from toronto to atlanta in the afternoon
True tags: ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need to fly from pittsburgh to oakland and depart in the afternoon
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN CCONJ VERB ADP DET NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN CCONJ VERB ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1

accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i need a flight from los angeles to pittsburgh on monday afternoon
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the evening flights from atlanta to boston
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i need to know what flights leave atlanta on sunday evening and arrive in baltimore
True tags: PRON VERB PART VERB DET NOUN VERB PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN
Predicted tags: PRON VERB PART VERB DET NOUN VERB PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: what flights are there from boston to denver on monday morning
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.82	11
macro avg	0.79	0.71	0.52	11
weighted avg	0.95	0.82	0.79	11

Sentence: give me morning flights from atlanta to baltimore
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flights from atlanta to dallas in the afternoon
True tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: morning flights from pittsburgh to atlanta on wednesday
True tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what are the flights dallas to boston on monday morning
True tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: am flights from atlanta to philadelphia
True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: tampa to charlotte sunday morning
True tags: PROPN ADP PROPN NOUN NOUN
Predicted tags: VERB ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
accuracy			0.80	5
macro avg	0.75	0.88	0.67	5
weighted avg	1.00	0.80	0.87	5

Sentence: show flights saturday evening from <unk> louis to burbank
True tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what pm flights are available from philadelphia to pittsburgh
True tags: DET NOUN NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN VERB ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.75	0.75	0.50	9
weighted avg	1.00	0.78	0.78	9

Sentence: what are the flights from milwaukee to orlando on wednesday night
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.94	0.94	0.93	11
weighted avg	0.94	0.91	0.91	11

Sentence: show me the flights from san francisco to dallas
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show flights from san francisco to denver on a thursday
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: from las vegas to phoenix
True tags: ADP PROPN PROPN ADP PROPN
Predicted tags: ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: show me all flights from san diego to los angeles
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights from kansas city to minneapolis
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list flights from las vegas to phoenix
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: flights from las vegas to montreal
True tags: NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i am also interested in a flight that <unk> from <unk> louis to las vegas
True tags: PRON AUX ADV VERB ADP DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB VERB ADP DET NOUN ADP AUX ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	0.50	1.00	0.67	1
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.75	0.69	0.65	15
weighted avg	0.83	0.80	0.78	15

Sentence: <unk> petersburg to detroit
True tags: PROPN PROPN ADP PROPN
Predicted tags: AUX PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	1

| | 8 | 0.00 | 1.00 | 0.00 | 0 |

	precision	recall	f1-score	support
accuracy			0.75	4
macro avg	0.67	0.89	0.60	4
weighted avg	1.00	0.75	0.85	4

Sentence: show me flights from san francisco to minneapolis
True tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights from salt lake city to las vegas
True tags: DET NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.80	0.80	0.60	9
weighted avg	1.00	0.89	0.89	9

Sentence: show me all flights from san francisco to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	accuracy		1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: do you have flights from <unk> petersburg to toronto on monday
True tags: AUX PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: AUX PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what are all the flights on delta in and out of fort worth
True tags: PRON AUX DET DET NOUN ADP PROPN ADP CCONJ ADP ADP PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADP PROPN ADP CCONJ ADP ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show flights from <unk> petersburg to charlotte
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i <unk> like flight information from dallas fort worth to boston on tuesday
True tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me all flights from san francisco to pittsburgh on friday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: from las vegas to montreal
True tags: ADP PROPN PROPN ADP PROPN
Predicted tags: ADP PROPN PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: sunday flights from new york city to las vegas
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please find a flight from kansas city to newark
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i want to go from san francisco to denver
True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list all flights on continental leaving denver on monday
True tags: VERB DET NOUN ADP PROPN VERB PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN VERB PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: only show continental flights
True tags: ADV VERB PROPN NOUN
Predicted tags: NOUN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.75	4
macro avg	0.88	0.75	0.67	4
weighted avg	0.88	0.75	0.67	4

Sentence: find a flight on delta from philadelphia to san francisco
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

```
   accuracy                        1.00      10
  macro avg      1.00     1.00     1.00      10
weighted avg      1.00     1.00     1.00       10
```

Sentence: all delta flights to <unk> if you can
True tags: DET PROPN NOUN ADP NOUN ADP PRON AUX
Predicted tags: DET PROPN NOUN ADP PROPN VERB PRON AUX
Classification Report:

```
          precision   recall  f1-score   support

    1       0.50      1.00     0.67        1
    2       1.00      0.50     0.67        2
    3       1.00      0.50     0.67        2
    4       0.00      1.00     0.00        0
    5       1.00      1.00     1.00        1
    6       1.00      1.00     1.00        1
    8       1.00      1.00     1.00        1

 accuracy                      0.75        8
macro avg    0.79      0.86     0.71        8
weighted avg  0.94      0.75     0.79        8
```

Sentence: show me all the flights from toronto on nationair
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

```
          precision   recall  f1-score   support

    1       1.00      1.00     1.00        2
    2       1.00      1.00     1.00        2
    3       1.00      1.00     1.00        1
    4       1.00      1.00     1.00        1
    5       1.00      1.00     1.00        2
    6       1.00      1.00     1.00        1

 accuracy                      1.00        9
macro avg    1.00      1.00     1.00        9
weighted avg  1.00      1.00     1.00        9
```

Sentence: show me all the united flights from boston to denver
True tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

```
          precision   recall  f1-score   support

    1       1.00      1.00     1.00        3
    2       1.00      1.00     1.00        2
    3       1.00      1.00     1.00        1
    4       1.00      1.00     1.00        1
    5       1.00      1.00     1.00        2
```

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all the flights on united leaving from boston
True tags: VERB PRON DET DET NOUN ADP PROPN VERB ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: when are the american flights from phoenix to milwaukee
True tags: ADV AUX DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.86	0.71	0.57	9
weighted avg	1.00	0.78	0.78	9

Sentence: please list all united flights between pittsburgh and baltimore
True tags: INTJ VERB DET PROPN NOUN ADP PROPN CCONJ PROPN
Predicted tags: INTJ VERB DET PROPN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please list all flights between boston and philadelphia <unk> on sundays
True tags: INTJ VERB DET NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN CCONJ PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.96	0.93	0.93	11
weighted avg	0.93	0.91	0.90	11

Sentence: list all flights from baltimore to san francisco on friday
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me flights from philadelphia to denver on a monday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the flights from denver to atlanta on friday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: flights that go from oakland to philadelphia on friday
True tags: NOUN ADP VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN ADP VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: baltimore to philadelphia wednesday
True tags: PROPN ADP PROPN NOUN
Predicted tags: PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: i <unk> like a flight from montreal to san diego for sunday
True tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights are available friday from philadelphia to oakland
True tags: DET NOUN AUX ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.86	0.86	0.71	9
weighted avg	1.00	0.89	0.89	9

Sentence: i would like to see the flights available from pittsburgh to san francisco for monday
True tags: PRON AUX VERB PART VERB DET NOUN ADJ ADP PROPN ADP PROPN PROPN ADP NOUN

Predicted tags: PRON AUX VERB PART VERB DET NOUN ADJ ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: show me the flights on sunday from tampa to charlotte
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what are all flights from denver to philadelphia on saturday
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10

	precision	recall	f1-score	support
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights are available from denver to philadelphia on wednesday
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: i want to go from boston to washington on a saturday
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show flights from burbank to <unk> louis on monday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1

```
          accuracy                  1.00      9
         macro avg     1.00    1.00    1.00      9
      weighted avg      1.00    1.00    1.00       9
```

Sentence: please show me flights from dallas to atlanta on monday
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

```
              precision   recall  f1-score   support

         1     1.00     1.00     1.00       2
         2     1.00     1.00     1.00       3
         3     1.00     1.00     1.00       2
         4     1.00     1.00     1.00       1
         6     1.00     1.00     1.00       1
        13      1.00      1.00      1.00        1

   accuracy                  1.00      10
  macro avg     1.00    1.00    1.00      10
weighted avg      1.00    1.00    1.00       10
```

Sentence: show me the flights from pittsburgh to los angeles on thursday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP
NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP
NOUN
Classification Report:

```
              precision   recall  f1-score   support

         1     1.00     1.00     1.00       3
         2     1.00     1.00     1.00       3
         3     1.00     1.00     1.00       2
         4     1.00     1.00     1.00       1
         5     1.00     1.00     1.00       1
         6     1.00     1.00     1.00       1

   accuracy                  1.00      11
  macro avg     1.00    1.00    1.00      11
weighted avg      1.00    1.00    1.00       11
```

Sentence: i <unk> like a list of the flights from oakland to dallas fort worth on sunday
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP
PROPN PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP
PROPN PROPN PROPN ADP NOUN
Classification Report:

```
              precision   recall  f1-score   support

         1     1.00     1.00     1.00        4
```

	precision	recall	f1-score	support
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: show me the flights from boston to pittsburgh on wednesday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: list all flights from nashville to cleveland on sunday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me a flight from tampa to charlotte on sunday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights from denver to san francisco
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what are all the flights available between pittsburgh and dallas fort worth
True tags: PRON AUX DET DET NOUN ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights from seattle to salt lake city
True tags: DET NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: what are the flights from memphis to las vegas
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights are there from pittsburgh to los angeles
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.78	9
macro avg	0.79	0.71	0.52	9
weighted avg	0.94	0.78	0.74	9

Sentence: i <unk> looking for a flight from pittsburgh to san francisco
True tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN

Predicted tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from dallas to san francisco
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what are the flights from boston to san francisco
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights do you have leaving boston going to san francisco
True tags: DET NOUN AUX PRON VERB VERB PROPN VERB ADP PROPN PROPN
Predicted tags: PRON NOUN AUX PRON VERB VERB PROPN VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: list all flights please from washington to san francisco
True tags: VERB DET NOUN INTJ ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN INTJ ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list flights between oakland and san francisco
True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1

```
   accuracy                      1.00      7
  macro avg      1.00    1.00    1.00      7
weighted avg     1.00    1.00    1.00      7
```

Sentence: interested in a flight from washington to fort worth
True tags: VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights are <unk> available between boston and dallas fort worth
True tags: DET NOUN AUX ADV ADJ ADP PROPN CCONJ PROPN PROPN
PROPN
Predicted tags: PRON NOUN AUX AUX ADJ ADP PROPN CCONJ PROPN PROPN
PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.83	0.78	0.63	11
weighted avg	0.95	0.82	0.79	11

Sentence: what about flights from boston to san diego
True tags: PRON ADP NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON ADP NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flights from baltimore to san francisco
True tags: NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i live in washington and i would like to make a trip to san francisco can you tell me which airlines connect with those two cities
True tags: PRON VERB ADP PROPN CCONJ PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN AUX PRON VERB PRON DET NOUN VERB ADP DET NUM NOUN
Predicted tags: PRON NOUN ADP PROPN CCONJ PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN AUX PRON VERB PRON DET NOUN PROPN ADP NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	3
4	1.00	0.60	0.75	5
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	4
8	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.85	26
macro avg	0.93	0.83	0.81	26
weighted avg	0.91	0.85	0.84	26

Sentence: show me the flights from detroit to las vegas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights go from denver to atlanta
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.86	0.86	7

Sentence: show me the flights from montreal to philly
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flight from denver to philadelphia
True tags: NOUN ADP PROPN ADP PROPN

Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: give me the flights from baltimore to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like to fly from boston to baltimore
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: tell me the flights that leave philadelphia and go to dallas
True tags: VERB PRON DET NOUN ADP VERB PROPN CCONJ VERB ADP
PROPN

Predicted tags: VERB PRON DET NOUN ADP VERB PROPN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: flight information from oakland to denver
True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: the flight will <unk> from boston
True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: DET NOUN NOUN ADV ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	0.00	1.00	0.00	0
accuracy			0.67	6
macro avg	0.79	0.71	0.52	6
weighted avg	0.92	0.67	0.61	6

Sentence: what are the flights from pittsburgh to oakland

True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights are there from baltimore to newark
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: flights from columbus to milwaukee
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: i <unk> like information on boston to washington
True tags: PRON AUX VERB NOUN ADP PROPN ADP PROPN

Predicted tags: PRON AUX VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: list flights from houston to phoenix
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: information of a flight from atlanta to pittsburgh
True tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i need to go to pittsburgh and denver
True tags: PRON VERB PART VERB ADP PROPN CCONJ PROPN
Predicted tags: PRON VERB PART VERB PART PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.00	0.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	0.50	1.00	0.67	1
accuracy			0.88	8
macro avg	0.92	0.83	0.78	8
weighted avg	0.94	0.88	0.83	8

Sentence: what flights from philadelphia to atlanta
True tags: DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.83	6
macro avg	0.80	0.80	0.60	6
weighted avg	1.00	0.83	0.83	6

Sentence: flight from milwaukee to denver
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: tell me the flights from baltimore to dallas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i <unk> like to book a flight from atlanta to denver
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: now get me from pittsburgh to denver
True tags: ADV VERB PRON ADP PROPN ADP PROPN
Predicted tags: ADV VERB PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what flights are there from boston to dallas
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: show me flights from pittsburgh to philadelphia
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: show flights from philadelphia to boston
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i <unk> like to see flights from pittsburgh to philadelphia
True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: give me flights from pittsburgh to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need to go from philadelphia to dallas
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show flights from pittsburgh to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what are the flights from chicago to indianapolis
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: get flights from toronto to milwaukee
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what are the different classes that an airline offers
True tags: PRON AUX DET ADJ NOUN ADP DET NOUN VERB
Predicted tags: PRON AUX DET ADJ PROPN ADP DET NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.00	1.00	0.00	0
2	1.00	1.00	1.00	1
3	1.00	0.50	0.67	2

```
          4      1.00     0.00     0.00      1
          5      1.00     1.00     1.00      2
          6      1.00     1.00     1.00      1
          7      1.00     1.00     1.00      1
          8      1.00     1.00     1.00      1

   accuracy                       0.78      9
  macro avg      0.88     0.81     0.71      9
weighted avg      1.00     0.78     0.81      9
```

Sentence: show flights between boston and denver
True tags: VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN
Classification Report:

```
            precision    recall  f1-score   support

          1      1.00     1.00     1.00      2
          2      1.00     1.00     1.00      1
          3      1.00     1.00     1.00      1
          4      1.00     1.00     1.00      1
         10      1.00     1.00     1.00      1

   accuracy                       1.00      6
  macro avg      1.00     1.00     1.00      6
weighted avg      1.00     1.00     1.00      6
```

Sentence: show flights from dallas to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

```
            precision    recall  f1-score   support

          1      1.00     1.00     1.00      2
          2      1.00     1.00     1.00      2
          3      1.00     1.00     1.00      1
          4      1.00     1.00     1.00      1

   accuracy                       1.00      6
  macro avg      1.00     1.00     1.00      6
weighted avg      1.00     1.00     1.00      6
```

Sentence: show me flights from baltimore to dallas
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

```
            precision    recall  f1-score   support

          1      1.00     1.00     1.00      2
          2      1.00     1.00     1.00      2
          3      1.00     1.00     1.00      1
```

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me all the flights from memphis to charlotte
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i would like to see the flights from baltimore to philadelphia please
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN INTJ
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights are there from indianapolis to orlando
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: no i want to go from denver to oakland
True tags: DET PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: NOUN PRON VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.00	1.00	0.00	0
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.86	0.86	0.71	9
weighted avg	1.00	0.89	0.89	9

Sentence: show me flights from milwaukee to orlando
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me a list of flights between denver and oakland
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN

Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all the flights from charlotte to cleveland
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me flights from denver to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: tell me about flights from indianapolis to houston

True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: oakland to philadelphia
True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: what are your flights from denver to baltimore
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: list all flights from baltimore to philadelphia
True tags: VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what flights are available from boston to dallas
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.86	0.86	0.71	8
weighted avg	1.00	0.88	0.88	8

Sentence: i would like to see all flights from denver to philadelphia
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: atlanta to pittsburgh

True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: give me a flight from baltimore to newark that arrives as early as possible
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP ADV ADP ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP ADJ ADP ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.94	0.88	0.83	14
weighted avg	0.96	0.93	0.90	14

Sentence: what flights are there between atlanta and denver
True tags: DET NOUN VERB PRON ADP PROPN CCONJ PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.75	8
macro avg	0.81	0.75	0.58	8

weighted avg   0.94   0.75   0.71   8

Sentence: i need a flight from phoenix to atlanta
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i want to fly from atlanta to philadelphia
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: also give me a list of flights between oakland and boston
True tags: ADV VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy		0.91	11	
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Average Loss: 0.1867
Average Accuracy: 94.55 %
Sentence: what are the coach flights between dallas and baltimore leaving august tenth and returning august <unk>
True tags: PRON AUX DET NOUN NOUN ADP PROPN CCONJ PROPN VERB NOUN ADJ CCONJ VERB NOUN NUM
Predicted tags: PRON AUX DET PROPN NOUN ADP PROPN CCONJ PROPN VERB NOUN ADJ CCONJ ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	0.50	1.00	0.67	1
3	1.00	0.75	0.86	4
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	2
accuracy		0.81	16	
macro avg	0.90	0.82	0.79	16
weighted avg	0.91	0.81	0.80	16

Sentence: i want a flight from nashville to seattle that arrives no later than 3 pm
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB DET ADJ ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB DET PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy		0.87	15	
macro avg	0.92	0.75	0.70	15

weighted avg	0.91	0.87	0.81	15

Sentence: i need a flight leaving kansas city to chicago leaving next wednesday and returning the following day
True tags: PRON VERB DET NOUN VERB PROPN PROPN ADP PROPN VERB ADJ NOUN CCONJ VERB DET VERB NOUN
Predicted tags: PRON VERB DET NOUN VERB VERB PROPN ADP PROPN VERB ADJ NOUN CCONJ ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	0.50	1.00	0.67	1
3	0.75	1.00	0.86	3
4	0.75	0.60	0.67	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.82	17
macro avg	0.88	0.91	0.87	17
weighted avg	0.85	0.82	0.82	17

Sentence: explain meal codes <unk> <unk>
True tags: VERB NOUN NOUN PROPN PROPN
Predicted tags: VERB NOUN NOUN AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.60	5
macro avg	0.75	0.75	0.50	5
weighted avg	1.00	0.60	0.60	5

Sentence: show me all flights from atlanta to san francisco which leave the day after tomorrow after 5 <unk> pm
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB DET NOUN ADP NOUN ADP NUM ADV NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN DET VERB DET NOUN ADP NOUN ADP NUM NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	0.67	1.00	0.80	2
6	1.00	0.50	0.67	2
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.89	19
macro avg	0.90	0.81	0.77	19
weighted avg	0.94	0.89	0.87	19

Sentence: i need a flight from toronto to montreal reaching montreal early on friday
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN VERB PROPN ADJ ADP NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.93	0.93	13
weighted avg	0.94	0.92	0.92	13

Sentence: are there any flights from new york to montreal canada leaving on thursday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me ground transportation in philadelphia on monday morning
True tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: find a flight from toronto to san diego with a layover in dc on delta airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what is restriction ap80
True tags: PRON AUX NOUN PROPN
Predicted tags: PRON AUX NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: list the arizona airport
True tags: VERB DET PROPN PROPN
Predicted tags: VERB DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	2
3	0.00	1.00	0.00	0
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
accuracy			0.50	4
macro avg	0.60	0.80	0.40	4
weighted avg	1.00	0.50	0.50	4

Sentence: what are the nonstop flights on america west or southwest air from
kansas city to burbank on saturday may twenty two
True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN CCONJ PROPN
PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM NUM
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN CCONJ VERB
PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.86	0.92	7
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			0.95	21
macro avg	0.89	0.98	0.88	21
weighted avg	1.00	0.95	0.97	21

Sentence: what times does the late afternoon flight leave from washington for denver
True tags: DET NOUN AUX DET ADJ NOUN NOUN VERB ADP PROPN ADP
PROPN
Predicted tags: PRON NOUN AUX DET ADJ NOUN NOUN VERB ADP PROPN ADP
PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.88	0.94	0.83	12
weighted avg	1.00	0.92	0.94	12

Sentence: what does the meal code s stand for
True tags: PRON AUX DET NOUN NOUN PROPN VERB ADP
Predicted tags: PRON AUX DET NOUN NOUN VERB VERB ADP
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.93	0.86	0.81	8
weighted avg	0.94	0.88	0.83	8

Sentence: is there ground transportation from the memphis airport into town when if i arrive at <unk> in the morning
True tags: VERB PRON NOUN NOUN ADP DET PROPN PROPN ADP PROPN ADV ADP PRON VERB ADP NUM ADP DET NOUN
Predicted tags: AUX PRON NOUN NOUN ADP DET PROPN PROPN ADP NOUN PROPN PROPN PRON VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.40	0.67	0.50	3
2	1.00	0.80	0.89	5
3	0.75	1.00	0.86	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.74	19
macro avg	0.79	0.66	0.55	19
weighted avg	0.87	0.74	0.73	19

Sentence: what flights between dfw and oakland arrive in oakland between <unk> am and <unk> pm
True tags: DET NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN ADP NUM NOUN CCONJ NUM NOUN
Predicted tags: PRON NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN ADP PROPN NOUN CCONJ AUX NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	2
accuracy			0.80	15
macro avg	0.75	0.78	0.54	15
weighted avg	0.95	0.80	0.77	15

Sentence: what are the flights on mondays that travel from charlotte north carolina to phoenix arizona
True tags: PRON AUX DET NOUN ADP PROPN ADP VERB ADP PROPN ADV PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	1.00	1.00	4
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.92	0.75	0.70	15
weighted avg	0.91	0.87	0.81	15

Sentence: what kind of ground transportation is there in washington dc
True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN PROPN
Predicted tags: PRON NOUN ADP NOUN NOUN AUX PRON ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.80	10
macro avg	0.79	0.71	0.52	10
weighted avg	0.95	0.80	0.77	10

Sentence: in economy class from dallas to baltimore arriving july seventh i <unk> like to know what <unk> the cheapest ticket possible
True tags: ADP NOUN NOUN ADP PROPN ADP PROPN VERB NOUN ADJ PRON AUX VERB PART VERB PRON AUX DET ADJ NOUN ADJ
Predicted tags: ADP NOUN NOUN ADP PROPN ADP PROPN VERB NOUN ADJ PRON AUX ADP PART VERB DET AUX DET ADJ NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	4
4	1.00	0.67	0.80	3
5	0.50	1.00	0.67	1
6	1.00	0.50	0.67	2
7	1.00	1.00	1.00	3
8	1.00	1.00	1.00	2
12	1.00	1.00	1.00	1
accuracy			0.90	21
macro avg	0.92	0.91	0.89	21
weighted avg	0.94	0.90	0.90	21

Sentence: show flights from baltimore to san francisco between 6 pm and 8 pm on friday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN CCONJ NUM NOUN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN CCONJ CCONJ NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
9	1.00	0.50	0.67	2
10	0.50	1.00	0.67	1
accuracy			0.93	15
macro avg	0.92	0.92	0.89	15
weighted avg	0.97	0.93	0.93	15

Sentence: what meals are available on dl <unk> which <unk> arrives in san francisco at <unk> am
True tags: DET NOUN AUX ADJ ADP PROPN NUM DET PROPN VERB ADP PROPN PROPN ADP NUM NOUN
Predicted tags: PRON NOUN AUX ADJ ADP PROPN AUX DET AUX VERB ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	0.33	1.00	0.50	1
9	1.00	0.00	0.00	2
accuracy			0.75	16
macro avg	0.79	0.81	0.66	16
weighted avg	0.90	0.75	0.74	16

Sentence: i want to fly from kansas city to chicago next wednesday arriving in the evening and returning the next day
True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN VERB ADP DET NOUN CCONJ VERB DET ADJ NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN VERB ADP DET NOUN CCONJ ADP DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	3
4	1.00	0.75	0.86	4
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.95	20

	macro avg	0.97	0.97	0.97	20
	weighted avg	0.96	0.95	0.95	20

Sentence: please book for me a flight on twa from washington dc to san francisco earliest possible time
True tags: INTJ VERB ADP PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN ADV ADJ NOUN
Predicted tags: INTJ VERB ADP PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN ADJ NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	0.00	0.00	1
9	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.88	17
macro avg	0.80	0.80	0.70	17
weighted avg	0.94	0.88	0.88	17

Sentence: is there a red eye flight from san jose to nashville on wednesday the nineteenth of may
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ ADP NOUN
Predicted tags: AUX PRON DET NOUN PROPN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	0.75	0.75	0.75	4
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.50	0.67	2
8	0.00	1.00	0.00	0
accuracy			0.82	17
macro avg	0.81	0.78	0.66	17
weighted avg	0.90	0.82	0.82	17

Sentence: i <unk> like to arrange for two friends to fly into los angeles next saturday evening one of the people is coming from kansas city and the other is coming from las vegas
True tags: PRON AUX VERB PART VERB ADP NUM NOUN PART VERB ADP PROPN PROPN ADJ NOUN NOUN NUM ADP DET NOUN AUX VERB ADP PROPN PROPN CCONJ DET ADJ AUX VERB ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB ADP NOUN NOUN ADP VERB ADP PROPN PROPN ADJ NOUN NOUN NUM ADP DET NOUN VERB VERB ADP PROPN PROPN CCONJ DET ADJ AUX ADJ ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	0.83	1.00	0.91	5
3	0.80	1.00	0.89	4
4	0.80	0.80	0.80	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
8	1.00	0.67	0.80	3
9	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
12	1.00	0.50	0.67	2
accuracy			0.88	33
macro avg	0.92	0.86	0.87	33
weighted avg	0.90	0.88	0.87	33

Sentence: what is restriction ap <unk>
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.90	0.80	0.73	5
weighted avg	0.90	0.80	0.73	5

Sentence: what is restriction ap 80
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.90	0.80	0.73	5
weighted avg	0.90	0.80	0.73	5

Sentence: show me all flights from philadelphia to san francisco with one stop in dallas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: show me the flights from miami to san diego with one stop in denver
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: do you have a flight from atlanta to charlotte north carolina next monday
True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADV PROPN ADJ NOUN
Predicted tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.97	0.89	0.87	13
weighted avg	0.94	0.92	0.89	13

Sentence: i would like to book an early morning flight from tampa florida to charlotte north carolina on april sixth
True tags: PRON AUX VERB PART VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADV PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB PART VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.98	0.90	0.89	19
weighted avg	0.96	0.95	0.92	19

Sentence: now i <unk> like flights from philadelphia to pittsburgh leaving between 430 and 530 pm

True tags: ADV PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB ADP NUM CCONJ NUM NOUN
Predicted tags: VERB PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB ADP PROPN CCONJ NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.93	0.83	0.81	15
weighted avg	0.91	0.87	0.84	15

Sentence: from sfo to denver
True tags: ADP PROPN ADP PROPN
Predicted tags: ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: what is the lowest fare from bwi to salt lake city
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11

	macro avg	1.00	1.00	1.00	11
	weighted avg	1.00	1.00	1.00	11

Sentence: flight numbers from minneapolis to long beach on june twenty six
True tags: NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NUM NUM
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NUM NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
9	1.00	1.00	1.00	2
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: which is the flight number for the us air flight from philadelphia to boston is it <unk> or is it <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN AUX PRON NUM CCONJ AUX PRON NUM
Predicted tags: DET AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN VERB VERB AUX NUM AUX AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	0.67	1.00	0.80	2
6	1.00	0.00	0.00	3
8	0.40	0.67	0.50	3
9	0.00	0.00	0.00	2
10	1.00	0.00	0.00	1
accuracy			0.67	21
macro avg	0.67	0.63	0.48	21
weighted avg	0.79	0.67	0.62	21

Sentence: how much would car rental cost in atlanta
True tags: ADV ADV AUX NOUN ADJ VERB ADP PROPN
Predicted tags: ADJ ADJ AUX NOUN PROPN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1

	precision	recall	f1-score	support
3	0.50	1.00	0.67	1
4	1.00	0.00	0.00	1
7	0.00	0.00	0.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.50	8
macro avg	0.71	0.57	0.48	8
weighted avg	0.75	0.50	0.42	8

Sentence: please list the prices for a rental car in pittsburgh
True tags: INTJ VERB DET NOUN ADP DET ADJ NOUN ADP PROPN
Predicted tags: INTJ VERB DET NOUN ADP DET PROPN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.93	0.86	0.81	10
weighted avg	0.95	0.90	0.87	10

Sentence: what does the restriction <unk> mean
True tags: PRON AUX DET NOUN PROPN VERB
Predicted tags: PRON AUX DET NOUN AUX VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.83	6
macro avg	0.92	0.83	0.78	6
weighted avg	0.92	0.83	0.78	6

Sentence: list nonstop flights from baltimore washington to oakland that arrive between <unk> and <unk> pm
True tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP NUM CCONJ NUM NOUN

Predicted tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP PROPN CCONJ PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
accuracy			0.87	15
macro avg	0.93	0.83	0.79	15
weighted avg	0.92	0.87	0.82	15

Sentence: list all of the daily flights arriving in denver from 8 to 9 pm
True tags: VERB DET ADP DET ADJ NOUN VERB ADP PROPN ADP NUM ADP NUM NOUN
Predicted tags: VERB DET ADP DET ADJ NOUN VERB ADP PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
accuracy			0.86	14
macro avg	0.90	0.86	0.79	14
weighted avg	0.95	0.86	0.82	14

Sentence: get flights from milwaukee to <unk>
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what is the earliest flight from boston to bwi that serves a snack
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.94	0.93	13
weighted avg	0.95	0.92	0.92	13

Sentence: is bwi washington
True tags: VERB PROPN PROPN
Predicted tags: AUX NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
3	0.00	1.00	0.00	0
4	1.00	0.00	0.00	1
8	0.00	1.00	0.00	0
accuracy			0.33	3
macro avg	0.50	0.62	0.17	3
weighted avg	1.00	0.33	0.44	3

Sentence: what are the cities that american airlines serves
True tags: PRON AUX DET NOUN ADP PROPN PROPN VERB
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: which cities are serviced by both american and delta airlines
True tags: DET NOUN AUX VERB ADP DET PROPN CCONJ PROPN PROPN
Predicted tags: DET NOUN VERB NOUN ADP PROPN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	0.00	0.00	0.00	1
5	1.00	0.50	0.67	2
8	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.70	10
macro avg	0.75	0.64	0.60	10
weighted avg	0.78	0.70	0.66	10

Sentence: show me all the us air flights to pittsburgh between 12 and 4 in the afternoon
True tags: VERB PRON DET DET PROPN PROPN NOUN ADP PROPN ADP NUM CCONJ NUM ADP DET NOUN
Predicted tags: VERB PRON DET DET PROPN PROPN NOUN ADP PROPN ADP NUM CCONJ CCONJ ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
10	0.50	1.00	0.67	1
accuracy			0.94	16
macro avg	0.94	0.94	0.92	16
weighted avg	0.97	0.94	0.94	16

Sentence: what is the cost of limousine service in philadelphia
True tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: how much does the limousine service cost within pittsburgh
True tags: ADV ADV AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: ADJ ADJ AUX DET NOUN NOUN NOUN VERB PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	0.00	0.00	1
3	0.67	1.00	0.80	2
4	0.00	0.00	0.00	1
5	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.56	9
macro avg	0.71	0.62	0.47	9
weighted avg	0.81	0.56	0.51	9

Sentence: on november twenty third of this <unk> 1991 i <unk> like to fly from atlanta to denver and i <unk> like to fly on delta
True tags: ADP NOUN NUM PROPN ADP DET NOUN NUM PRON AUX VERB PART VERB ADP PROPN ADP PROPN CCONJ PRON AUX VERB PART VERB ADP PROPN
Predicted tags: ADP NOUN NUM ADJ ADP NOUN ADJ PROPN PRON AUX VERB PART VERB ADP PROPN ADP PROPN CCONJ PRON AUX ADP PART VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	0.83	1.00	0.91	5
3	0.50	0.50	0.50	2
4	1.00	0.75	0.86	4
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	2
7	0.00	1.00	0.00	0

	precision	recall	f1-score	support
8	1.00	1.00	1.00	2
9	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	2
accuracy			0.80	25
macro avg	0.83	0.77	0.70	25
weighted avg	0.89	0.80	0.81	25

Sentence: can you tell me the flights on october fifteenth 1991 from boston to oakland
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADJ NUM ADP PROPN ADP PROPN
Predicted tags: AUX PRON VERB PRON DET NOUN ADP PROPN PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.96	0.78	0.75	14
weighted avg	0.91	0.86	0.80	14

Sentence: show me all united flights from denver to san francisco for september first 1991
True tags: VERB PRON DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ NUM
Predicted tags: VERB PRON DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1

```
   accuracy                    0.93        14
  macro avg      0.94    0.88    0.83       14
weighted avg     0.96    0.93    0.90        14
```

Sentence: information on american airline flights from washington to philadelphia
early morning times of flight
True tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN ADJ
NOUN NOUN ADP NOUN
Predicted tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN ADJ
NOUN NOUN ADP NOUN
Classification Report:

```
          precision    recall  f1-score   support

       1    1.00      1.00      1.00         4
       2    1.00      1.00      1.00         4
       3    1.00      1.00      1.00         5
       7    1.00      1.00      1.00         1

  accuracy                      1.00        14
  macro avg     1.00    1.00      1.00       14
weighted avg    1.00    1.00      1.00        14
```

Sentence: please give me the flight times i would like to fly from boston to baltimore
in the morning before 8
True tags: INTJ VERB PRON DET NOUN NOUN PRON AUX VERB PART VERB
ADP PROPN ADP PROPN ADP DET NOUN ADP NUM
Predicted tags: INTJ VERB PRON DET NOUN NOUN PRON AUX VERB PART
VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NUM
Classification Report:

```
          precision    recall  f1-score   support

       1    1.00      1.00      1.00         2
       2    1.00      1.00      1.00         4
       3    1.00      1.00      1.00         3
       4    1.00      1.00      1.00         3
       5    1.00      1.00      1.00         2
       6    1.00      1.00      1.00         2
       8    1.00      1.00      1.00         1
       9    1.00      1.00      1.00         1
      12    1.00      1.00      1.00         1
      13    1.00      1.00      1.00         1

  accuracy                      1.00        20
  macro avg     1.00    1.00      1.00       20
weighted avg    1.00    1.00      1.00        20
```

Sentence: please list the flight times for boston to pittsburgh
True tags: INTJ VERB DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: INTJ VERB DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all flights and fares from dallas to san francisco
True tags: VERB PRON DET NOUN CCONJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN CCONJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: please list me the flights and their cost of all airlines flying from denver to baltimore
True tags: INTJ VERB PRON DET NOUN CCONJ DET NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: INTJ VERB PRON DET NOUN CCONJ NOUN VERB ADP DET NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	0.67	0.67	3
4	0.67	1.00	0.80	2
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.88	16
macro avg	0.92	0.92	0.91	16
weighted avg	0.90	0.88	0.88	16

Sentence: give me the flights and fares on december twenty seventh from indianapolis to orlando
True tags: VERB PRON DET NOUN CCONJ NOUN ADP NOUN NUM ADJ ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN CCONJ NOUN ADP NOUN NUM ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: is there ground transportation from lga into new york city
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: AUX PRON NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.90	10
macro avg	0.83	0.83	0.67	10
weighted avg	1.00	0.90	0.90	10

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: how far is toronto international from downtown
True tags: ADV ADV AUX PROPN PROPN ADP NOUN
Predicted tags: ADJ ADJ AUX PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.71	7
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.71	0.71	7

Sentence: how far is los angeles international from downtown
True tags: ADV ADV AUX PROPN PROPN PROPN ADP NOUN
Predicted tags: ADJ ADJ AUX PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.75	8
macro avg	0.83	0.83	0.67	8
weighted avg	1.00	0.75	0.75	8

Sentence: how long does a flight from baltimore to san francisco take
True tags: ADV ADV AUX DET NOUN ADP PROPN ADP PROPN PROPN VERB
Predicted tags: ADJ PROPN AUX DET NOUN ADP PROPN ADP PROPN PROPN ADP
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.73	11
macro avg	0.80	0.75	0.58	11
weighted avg	0.87	0.73	0.65	11

Sentence: what airport in new york is closest to downtown
True tags: DET NOUN ADP PROPN PROPN AUX ADJ ADP NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.71	0.62	0.35	9
weighted avg	0.93	0.67	0.62	9

Sentence: houston airports
True tags: PROPN NOUN
Predicted tags: PROPN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
accuracy			1.00	2
macro avg	1.00	1.00	1.00	2
weighted avg	1.00	1.00	1.00	2

Sentence: give me a list of airports in baltimore
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: where does delta fly to that american does not
True tags: ADV AUX PROPN VERB PART ADP PROPN AUX ADV
Predicted tags: VERB AUX PROPN VERB ADP VERB PROPN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.00	0.00	0.00	1
4	0.25	1.00	0.40	1
8	1.00	0.50	0.67	2
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.44	9
macro avg	0.65	0.42	0.31	9
weighted avg	0.73	0.44	0.37	9

Sentence: which airline has the smallest plane leaving pittsburgh and arriving in baltimore on july fourth
True tags: DET NOUN VERB DET ADJ NOUN VERB PROPN CCONJ VERB ADP PROPN ADP NOUN ADJ
Predicted tags: DET NOUN VERB DET ADJ NOUN VERB PROPN CCONJ VERB ADP PROPN ADP NOUN NUM

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
7	1.00	0.50	0.67	2
9	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.88	0.94	0.83	15
weighted avg	1.00	0.93	0.96	15

Sentence: which flight from pittsburgh to baltimore carries the smallest number of passengers
True tags: DET NOUN ADP PROPN ADP PROPN VERB DET ADJ NOUN ADP NOUN
Predicted tags: DET NOUN ADP PROPN ADP PROPN PROPN DET ADJ NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.94	0.83	0.80	12
weighted avg	0.94	0.92	0.88	12

Sentence: what is the first flight from boston to stapleton airport for tomorrow
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.95	0.95	0.94	12
weighted avg	0.94	0.92	0.92	12

Sentence: list all the flights that arrive at general mitchell international
True tags: VERB DET DET NOUN ADP VERB ADP PROPN PROPN PROPN
Predicted tags: VERB DET DET NOUN ADP VERB ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: how much does it cost to go from downtown to logan airport
True tags: ADV ADV AUX PRON VERB PART VERB ADP NOUN ADP PROPN PROPN
Predicted tags: ADJ ADJ AUX AUX VERB PART VERB ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	0.00	0.00	1
7	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
11	1.00	0.00	0.00	2
12	1.00	1.00	1.00	1
accuracy			0.75	12
macro avg	0.83	0.78	0.63	12
weighted avg	0.96	0.75	0.72	12

Sentence: show me flights from all airports to love field
True tags: VERB PRON NOUN ADP DET NOUN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN ADP DET NOUN ADP PROPN PROPN
Classification Report:

precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: flights from cincinnati to <unk> departing after 718 am american
True tags: NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all flights to dallas that are less than 1500 dollars round trip
True tags: VERB PRON DET NOUN ADP PROPN ADP AUX ADJ ADP NUM NOUN NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP VERB VERB ADP NUM NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	0.33	1.00	0.50	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.86	14
macro avg	0.93	0.78	0.72	14
weighted avg	0.95	0.86	0.82	14

Sentence: round trip fares from pittsburgh to philadelphia under 1000 dollars

True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	4
4	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.73	0.73	0.52	10
weighted avg	0.93	0.80	0.80	10

Sentence: round trip fares from baltimore to philadelphia under 1000 dollars
True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	4
4	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.73	0.73	0.52	10
weighted avg	0.93	0.80	0.80	10

Sentence: all flights from baltimore to philadelphia less than 1000 dollars
True tags: DET NOUN ADP PROPN ADP PROPN ADJ ADP NUM NOUN
Predicted tags: DET NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: how many seats in a 100
True tags: ADV ADJ NOUN ADP DET PROPN
Predicted tags: ADJ ADJ ADJ ADP DET PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
7	0.33	1.00	0.50	1
11	1.00	0.00	0.00	1
accuracy			0.67	6
macro avg	0.89	0.67	0.58	6
weighted avg	0.89	0.67	0.58	6

Sentence: how many passengers can a boeing 737 hold
True tags: ADV ADJ NOUN AUX DET PROPN NUM VERB
Predicted tags: ADJ ADJ NOUN AUX DET NOUN NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.33	1.00	0.50	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
7	0.33	1.00	0.50	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.50	8
macro avg	0.83	0.50	0.38	8
weighted avg	0.83	0.50	0.38	8

Sentence: what is the seating capacity of a <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP DET PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what is the seating capacity for delta be1
True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the flights from indianapolis to orlando with round trip fares less than <unk>
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN ADJ ADP NUM
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN ADJ ADP AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.89	0.89	0.78	15
weighted avg	1.00	0.93	0.93	15

Sentence: show me what flights are available from baltimore to dallas with economy fares
True tags: VERB PRON DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: baltimore to kansas city economy
True tags: PROPN ADP PROPN PROPN NOUN
Predicted tags: PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: economy fares new york to miami round trip
True tags: NOUN NOUN PROPN PROPN ADP PROPN NOUN NOUN
Predicted tags: NOUN NOUN PROPN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: find me all the round trip flights from burbank to milwaukee stopping in <unk> louis
True tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN VERB ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN VERB ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: i <unk> like to find a flight from charlotte to las vegas and make a stop in <unk> louis
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN CCONJ PROPN DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.98	0.96	0.97	19
weighted avg	0.96	0.95	0.94	19

Sentence: can you tell me which flights go from memphis to tacoma and make a stop in los angeles
True tags: AUX PRON VERB PRON DET NOUN VERB ADP PROPN ADP PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Predicted tags: AUX PRON VERB PRON DET NOUN VERB ADP PROPN ADP PROPN CCONJ PROPN DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.67	0.80	3

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.94	18
macro avg	0.97	0.96	0.96	18
weighted avg	0.96	0.94	0.94	18

Sentence: is there a flight between oakland and boston with a stopover in dallas fort worth on twa
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP PROPN CCONJ PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.94	17
macro avg	0.88	0.88	0.75	17
weighted avg	1.00	0.94	0.94	17

Sentence: show me all direct flights from san francisco to boston departing before noon
True tags: VERB PRON DET ADJ NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Predicted tags: VERB PRON DET ADJ NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13

weighted avg   1.00   1.00   1.00   13

Sentence: do you have an early morning direct flight from philadelphia to pittsburgh
True tags: AUX PRON VERB DET ADJ NOUN ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: AUX PRON VERB DET ADJ NOUN ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: which united flights from boston to san francisco make connections
True tags: DET PROPN NOUN ADP PROPN ADP PROPN PROPN VERB NOUN
Predicted tags: DET PROPN NOUN ADP PROPN ADP PROPN PROPN VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.90	0.90	0.87	10
weighted avg	0.95	0.90	0.90	10

Sentence: nonstop or connecting flights from seattle to boston
True tags: NOUN CCONJ VERB NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1

	precision	recall	f1-score	support
6	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.78	0.67	0.47	8
weighted avg	0.92	0.75	0.70	8

Sentence: please give me direct morning flights from pittsburgh to atlanta
True tags: INTJ VERB PRON ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: INTJ VERB PRON ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: list the flights that leave from philadelphia to atlanta early thursday morning before 8 am
True tags: VERB DET NOUN ADP VERB ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NUM NOUN
Predicted tags: VERB DET NOUN ADP VERB ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: give me the flights from boston to san francisco leaving early today
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ NOUN

Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the continental flights leaving chicago early saturday morning
True tags: VERB PRON DET PROPN NOUN VERB PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET PROPN NOUN VERB PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.94	0.83	0.80	10
weighted avg	0.93	0.90	0.86	10

Sentence: which flights are leaving from kansas city to atlanta early monday morning
True tags: DET NOUN AUX VERB ADP PROPN PROPN ADP PROPN ADJ NOUN NOUN
Predicted tags: DET NOUN VERB VERB ADP PROPN PROPN ADP PROPN ADJ NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1

		accuracy	0.92	12	
macro avg	0.93	0.86	0.81	12	
weighted avg	0.96	0.92	0.89	12	

Sentence: i would like to find flights from columbus to minneapolis on monday june fourteenth early in the morning or in the evening sunday june thirteenth thank you

True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADJ ADP DET NOUN CCONJ ADP DET NOUN NOUN NOUN ADJ VERB PRON

Predicted tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN PROPN ADJ ADP DET NOUN NUM ADP DET NOUN NOUN NOUN NUM NUM PRON

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	7
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	0.33	0.50	3
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
accuracy			0.85	27
macro avg	0.88	0.82	0.74	27
weighted avg	0.98	0.85	0.87	27

Sentence: and from milwaukee to atlanta before 10 am daily

True tags: CCONJ ADP PROPN ADP PROPN ADP NUM NOUN ADJ

Predicted tags: CCONJ ADP PROPN ADP PROPN ADP NUM NOUN ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list daily flights from denver to boston

True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list flights from boston to pittsburgh daily
True tags: VERB NOUN ADP PROPN ADP PROPN ADJ
Predicted tags: VERB NOUN ADP PROPN ADP PROPN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: show me all daily flights between milwaukee and orlando
True tags: VERB PRON DET ADJ NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET ADJ NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list daily flights from boston to oakland using continental airlines
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN VERB PROPN PROPN
Predicted tags: VERB ADJ NOUN ADP PROPN ADP PROPN VERB PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the flights arriving in baltimore on june fifteenth leaving either from denver or dallas
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ VERB CCONJ ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ VERB VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
10	1.00	0.50	0.67	2
accuracy			0.94	16
macro avg	0.97	0.94	0.94	16
weighted avg	0.95	0.94	0.93	16

Sentence: list the flights from pittsburgh to baltimore arriving on july first
True tags: VERB DET NOUN ADP PROPN ADP PROPN VERB ADP NOUN ADJ
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN VERB ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights arriving on baltimore on june fourteenth
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.93	0.86	0.81	10
weighted avg	0.95	0.90	0.87	10

Sentence: show me the cheapest flight arriving in baltimore on june fourteenth starting from dallas
True tags: VERB PRON DET ADJ NOUN VERB ADP PROPN ADP NOUN ADJ VERB ADP PROPN
Predicted tags: VERB PRON DET ADJ NOUN VERB ADP PROPN ADP NOUN PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.50	0.67	2
accuracy			0.86	14
macro avg	0.93	0.88	0.88	14
weighted avg	0.93	0.86	0.86	14

Sentence: how many airlines fly from new york to los angeles by way of milwaukee
True tags: ADV ADJ NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN

Predicted tags: ADJ ADJ NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.92	0.83	0.78	14
weighted avg	0.96	0.93	0.90	14

Sentence: how many flights does twa have in business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: ADJ ADJ NOUN AUX PROPN VERB ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.93	0.86	0.81	9
weighted avg	0.94	0.89	0.85	9

Sentence: how many first class flights does delta have today
True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB NOUN
Predicted tags: ADJ ADJ ADJ NOUN NOUN AUX PROPN VERB NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
7	0.33	1.00	0.50	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.78	9
macro avg	0.89	0.83	0.75	9
weighted avg	0.93	0.78	0.72	9

Sentence: how many flights does twa have with business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: ADJ ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.93	0.86	0.81	9
weighted avg	0.94	0.89	0.85	9

Sentence: how many first class flights does united have leaving from all cities today
True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB VERB ADP DET NOUN NOUN
Predicted tags: ADJ ADJ ADJ NOUN NOUN AUX PROPN VERB VERB ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	0.33	1.00	0.50	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.85	13
macro avg	0.92	0.88	0.81	13
weighted avg	0.95	0.85	0.81	13

Sentence: what time does the tuesday morning 755 flight leaving washington arrive in san francisco
True tags: DET NOUN AUX DET NOUN NOUN NUM NOUN VERB PROPN VERB ADP PROPN PROPN
Predicted tags: PRON NOUN AUX DET NOUN NOUN PROPN NOUN VERB PROPN VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.84	0.81	0.69	14
weighted avg	0.95	0.86	0.85	14

Sentence: i would like the time of your earliest flight in the morning from philadelphia to washington on american airlines
True tags: PRON AUX VERB DET NOUN ADP DET ADJ NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP DET ADJ NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: when does continental fly from philadelphia to denver on sundays
True tags: ADV AUX PROPN VERB ADP PROPN ADP PROPN ADP PROPN
Predicted tags: PROPN AUX PROPN VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	3
3	0.00	1.00	0.00	0
4	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.79	0.79	0.62	10
weighted avg	0.90	0.80	0.80	10

Sentence: i would like a schedule of flights from san francisco to boston on wednesday
True tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: in pittsburgh i <unk> like to rent a car
True tags: ADP PROPN PRON AUX VERB PART VERB DET NOUN
Predicted tags: ADP PROPN PRON AUX ADP PART VERB DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.94	0.94	0.92	9
weighted avg	0.94	0.89	0.89	9

Sentence: is there limousine service available at baltimore airport
True tags: AUX PRON NOUN NOUN ADJ ADP PROPN PROPN
Predicted tags: AUX PRON NOUN NOUN ADJ ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: may i have a listing of flights from long beach california to columbus ohio on wednesday
True tags: AUX PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: NOUN PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.94	16
macro avg	0.96	0.86	0.84	16
weighted avg	0.95	0.94	0.91	16

Sentence: i need a ticket from nashville tennessee to seattle
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> need information please on a flight from washington dc san francisco california
True tags: PRON AUX VERB NOUN INTJ ADP DET NOUN ADP PROPN PROPN PROPN PROPN PROPN

Predicted tags: PRON AUX VERB NOUN INTJ ADP DET NOUN ADP PROPN PROPN PROPN PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: please list any flights from oakland california to philadelphia on tuesday
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: can you tell me which flight from dallas to baltimore has the least expensive fare
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN VERB DET ADJ ADJ NOUN
Predicted tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN VERB DET ADJ ADJ NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2

	precision	recall	f1-score	support
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: of the flights available from dallas to baltimore on august third which airline has the least expensive flight
True tags: ADP DET NOUN ADJ ADP PROPN ADP PROPN ADP NOUN ADJ DET NOUN VERB DET ADJ ADJ NOUN
Predicted tags: ADP DET NOUN ADJ ADP PROPN ADP PROPN ADP NOUN ADJ ADJ NOUN VERB DET ADJ ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	0.67	0.80	3
7	0.80	1.00	0.89	4
accuracy			0.94	18
macro avg	0.97	0.94	0.95	18
weighted avg	0.96	0.94	0.94	18

Sentence: what are the most expensive first class tickets between boston and san francisco
True tags: PRON AUX DET ADJ ADJ ADV NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: PRON AUX DET ADJ ADJ ADJ NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.96	0.89	0.87	13
weighted avg	0.95	0.92	0.89	13

Sentence: what are the least expensive flights from denver to atlanta
True tags: PRON AUX DET ADJ ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what <unk> the price of the least expensive first class round trip ticket on us air from cleveland to miami
True tags: PRON AUX DET NOUN ADP DET ADJ ADJ ADV NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP DET ADJ ADJ ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.95	20
macro avg	0.96	0.88	0.85	20
weighted avg	0.97	0.95	0.93	20

Sentence: great now what i want to find out is on april twentieth from washington to denver do you have a flight least expensive fare around 5 <unk> in the morning
True tags: ADJ ADV PRON PRON VERB PART VERB ADV AUX ADP NOUN ADJ ADP PROPN ADP PROPN AUX PRON VERB DET NOUN ADJ ADJ NOUN ADP NUM ADV ADP DET NOUN
Predicted tags: PROPN VERB PRON PRON VERB PART VERB VERB VERB ADP NOUN ADJ ADP PROPN ADP PROPN VERB PRON VERB DET NOUN PROPN ADJ NOUN ADP NUM AUX ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	0.43	1.00	0.60	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	3
7	1.00	0.50	0.67	4
8	0.00	0.00	0.00	2
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	3
12	1.00	1.00	1.00	1
accuracy			0.77	30
macro avg	0.81	0.77	0.72	30
weighted avg	0.84	0.77	0.73	30

Sentence: what ground transportation is available between milwaukee airport and downtown milwaukee
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN CCONJ NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN CCONJ NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.88	0.88	0.75	11
weighted avg	1.00	0.91	0.91	11

Sentence: please list all the takeoffs and landings for general mitchell international
True tags: INTJ VERB DET DET NOUN CCONJ NOUN ADP PROPN PROPN PROPN
Predicted tags: INTJ VERB DET DET NOUN CCONJ CCONJ ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1

	precision	recall	f1-score	support
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
10	0.50	1.00	0.67	1
13	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.93	0.93	0.90	11
weighted avg	0.95	0.91	0.91	11

Sentence: what ground transportation is available from la guardia airport into new york city
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: what ground transportation is available from dallas fort worth airport to downtown dallas
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13

weighted avg   1.00   0.92   0.92   13

Sentence: ground transportation please in the city of boston between airport and downtown
True tags: NOUN NOUN INTJ ADP DET PROPN ADP PROPN ADP NOUN CCONJ NOUN
Predicted tags: NOUN NOUN INTJ ADP DET PROPN ADP PROPN ADP PROPN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.94	0.96	0.94	12
weighted avg	0.94	0.92	0.92	12

Sentence: ground san francisco
True tags: NOUN PROPN PROPN
Predicted tags: NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: tell me about ground transportation at san francisco
True tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: now show me all the flights from <unk> louis to burbank
True tags: ADV VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: saturday or sunday flights between milwaukee and phoenix american airlines
True tags: NOUN CCONJ NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: NOUN NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
10	1.00	0.50	0.67	2
accuracy			0.90	10
macro avg	0.94	0.88	0.88	10
weighted avg	0.93	0.90	0.89	10

Sentence: show me all flights from denver or philadelphia or pittsburgh to baltimore
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN CCONJ PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN CCONJ PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	2
accuracy		1.00	12	
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what are the flights from cleveland to indianapolis on wednesday may twelfth on either twa delta or continental
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADP CCONJ PROPN PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADP NOUN PROPN PROPN NUM PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
10	1.00	0.00	0.00	2
accuracy		0.89	18	
macro avg	0.86	0.89	0.76	18
weighted avg	0.96	0.89	0.87	18

Sentence: list all flights that leave from baltimore or denver or pittsburgh and arrive in philadelphia
True tags: VERB DET NOUN ADP VERB ADP PROPN CCONJ PROPN CCONJ PROPN CCONJ VERB ADP PROPN
Predicted tags: VERB DET NOUN ADP VERB ADP PROPN CCONJ PROPN CCONJ PROPN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	3
accuracy		1.00	15	
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: what does the fare code y mean
True tags: PRON AUX DET NOUN NOUN NOUN VERB
Predicted tags: PRON AUX DET NOUN NOUN NOUN VERB
Classification Report:

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what does fare code qw mean
True tags: PRON AUX NOUN NOUN PROPN VERB
Predicted tags: PRON AUX NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what is fare code qw
True tags: PRON AUX NOUN NOUN PROPN
Predicted tags: PRON AUX NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: what does fare code <unk> mean
True tags: PRON AUX NOUN NOUN PROPN VERB

Predicted tags: PRON AUX NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what does the fare code yn mean
True tags: PRON AUX DET NOUN NOUN PROPN VERB
Predicted tags: PRON AUX DET NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list all flights on united from san francisco to boston with fare code qx
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what is the latest flight from boston to denver that serves a meal

True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list all flights from chicago to seattle on continental which depart on saturday and serve meals
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PRON VERB ADP NOUN CCONJ VERB NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN DET VERB ADP NOUN CCONJ VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	0.50	1.00	0.67	1
6	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.93	0.86	0.81	16
weighted avg	0.97	0.94	0.92	16

Sentence: could you tell me what the earliest flight that goes between atlanta and denver is which serves a meal
True tags: AUX PRON VERB PRON PRON DET ADJ NOUN ADP VERB ADP PROPN CCONJ PROPN AUX PRON VERB DET NOUN
Predicted tags: AUX PRON VERB PRON DET DET ADJ NOUN ADP VERB ADP PROPN CCONJ PROPN VERB DET VERB DET NOUN
Classification Report:

precision   recall f1-score   support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.75	1.00	0.86	3
5	0.50	1.00	0.67	2
6	1.00	0.50	0.67	4
7	1.00	1.00	1.00	1
8	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
accuracy			0.84	19
macro avg	0.92	0.89	0.87	19
weighted avg	0.91	0.84	0.84	19

Sentence: give me the saturday morning flights with meals from chicago to minneapolis
True tags: VERB PRON DET NOUN NOUN NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: list flights from seattle to salt lake city on delta l10
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all flights from san diego to phoenix on a boeing 737
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET PROPN NUM
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.93	0.86	0.81	13
weighted avg	0.96	0.92	0.90	13

Sentence: what is a d9s
True tags: PRON AUX DET PROPN
Predicted tags: PRON AUX DET PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: what is the earliest flight between baltimore and oakland that serves breakfast
True tags: PRON AUX DET ADJ NOUN ADP PROPN CCONJ PROPN ADP VERB NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN CCONJ PROPN ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: a breakfast flight from denver to san francisco please
True tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN INTJ
Predicted tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list flights between boston and san francisco that serve breakfast
True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN ADP VERB NOUN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: give me all flights from boston to philadelphia next week arriving after lunch
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADJ NOUN VERB ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADJ NOUN VERB ADP NUM
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
accuracy			0.92	13
macro avg	0.88	0.96	0.85	13
weighted avg	1.00	0.92	0.95	13

Sentence: please show me flights from pittsburgh to atlanta on wednesday morning serving breakfast
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN VERB NOUN
Predicted tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
13	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.93	0.81	13
weighted avg	1.00	0.92	0.95	13

Sentence: what is the first flight that goes from atlanta to baltimore that serves breakfast
True tags: PRON AUX DET ADJ NOUN ADP VERB ADP PROPN ADP PROPN ADP VERB NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP VERB ADP PROPN ADP PROPN ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

```
      7     1.00    1.00    1.00       1
      8     1.00    1.00    1.00       1

  accuracy                   1.00      14
 macro avg      1.00    1.00    1.00      14
weighted avg      1.00    1.00    1.00       14
```

Sentence: which flights arrive in <unk> louis from <unk> paul on thursday morning
True tags: DET NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN
Predicted tags: DET NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN
Classification Report:

```
         precision   recall  f1-score   support

      1     1.00    1.00    1.00       4
      2     1.00    1.00    1.00       3
      3     1.00    1.00    1.00       3
      4     1.00    1.00    1.00       1
      5     1.00    1.00    1.00       1

  accuracy                   1.00      12
 macro avg      1.00    1.00    1.00      12
weighted avg      1.00    1.00    1.00       12
```

Sentence: i would like one flight from kansas city to <unk> paul arriving around dinnertime 6 pm
True tags: PRON AUX VERB NUM NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN NUM NOUN
Predicted tags: PRON AUX VERB NUM NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN NUM NOUN
Classification Report:

```
         precision   recall  f1-score   support

      1     1.00    1.00    1.00       4
      2     1.00    1.00    1.00       3
      3     1.00    1.00    1.00       3
      4     1.00    1.00    1.00       2
      6     1.00    1.00    1.00       1
      8     1.00    1.00    1.00       1
      9     1.00    1.00    1.00       2

  accuracy                   1.00      16
 macro avg      1.00    1.00    1.00      16
weighted avg      1.00    1.00    1.00       16
```

Sentence: list flights from dallas to houston arriving sunday afternoon
True tags: VERB NOUN ADP PROPN ADP PROPN VERB NOUN NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list nonstop flights from baltimore washington airport to oakland that depart in the afternoon
True tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP VERB ADP DET NOUN
Predicted tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP VERB ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i need flight information on thursday leaving pittsburgh and arriving in baltimore in the morning
True tags: PRON VERB NOUN NOUN ADP NOUN VERB PROPN CCONJ VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN VERB PROPN CCONJ VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: morning flights out of san francisco arriving boston afternoon
True tags: NOUN NOUN ADP ADP PROPN PROPN VERB PROPN NOUN
Predicted tags: NOUN NOUN ADP ADP PROPN PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i would like to <unk> my flight in washington dc stop in denver with the destination city of san francisco
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN VERB ADP PROPN ADP DET NOUN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB VERB NOUN ADP PROPN PROPN VERB ADP PROPN ADP DET ADJ PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	0.75	1.00	0.86	3
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.90	20
macro avg	0.86	0.89	0.80	20
weighted avg	0.96	0.90	0.91	20

Sentence: show me a list of flights on july twenty second leaving dc to dallas leaving dc after 6 pm
True tags: VERB PRON DET NOUN ADP NOUN ADP NOUN NUM ADJ VERB PROPN ADP PROPN VERB PROPN ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP NOUN NUM ADJ VERB PROPN ADP PROPN VERB PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: what airlines from washington dc to columbus
True tags: DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.80	0.80	0.60	7
weighted avg	1.00	0.86	0.86	7

Sentence: list flights from washington dc to boston
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: could you please give me information <unk> american airlines a flight from washington dc to philadelphia the earliest one in the morning as possible
True tags: AUX PRON INTJ VERB PRON NOUN VERB PROPN PROPN DET NOUN ADP PROPN PROPN ADP PROPN DET ADJ PRON ADP DET NOUN ADP ADJ
Predicted tags: AUX PRON INTJ VERB PRON NOUN PROPN PROPN PROPN DET NOUN ADP PROPN PROPN ADP PROPN DET ADJ NUM ADP DET NOUN NOUN NUM

Classification Report:

	precision	recall	f1-score	support
1	0.83	1.00	0.91	5
2	1.00	0.75	0.86	4
3	0.75	1.00	0.86	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	3
6	1.00	0.67	0.80	3
7	1.00	0.50	0.67	2
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
13	1.00	1.00	1.00	1
accuracy			0.83	24
macro avg	0.86	0.84	0.78	24
weighted avg	0.93	0.83	0.86	24

Sentence: list flights from washington dc to pittsburgh
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need a flight from washington dc to san diego
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i would like to fly from boston to baltimore please tell me what are the times of the flights
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN INTJ VERB PRON PRON AUX DET NOUN ADP DET NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN INTJ VERB PRON DET AUX DET NOUN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	0.67	1.00	0.80	2
6	1.00	0.67	0.80	3
8	1.00	1.00	1.00	2
12	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.96	0.96	0.96	19
weighted avg	0.96	0.95	0.95	19

Sentence: does flight dl <unk> dl <unk> from boston to denver stop in philadelphia
True tags: AUX NOUN PROPN NUM PROPN NUM ADP PROPN ADP PROPN VERB ADP PROPN
Predicted tags: AUX NOUN PROPN AUX PROPN AUX ADP PROPN ADP PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
8	0.33	1.00	0.50	1
9	1.00	0.00	0.00	2
accuracy			0.85	13
macro avg	0.89	0.83	0.75	13
weighted avg	0.95	0.85	0.81	13

Sentence: what kind of airplane is flight ua 281 from boston to denver
True tags: DET NOUN ADP NOUN AUX NOUN PROPN NUM ADP PROPN ADP PROPN
Predicted tags: PRON NOUN ADP NOUN AUX NOUN PROPN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.75	0.75	0.50	12
weighted avg	1.00	0.83	0.83	12

Sentence: what is the price of american airlines flight <unk> from new york to los angeles
True tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN NUM ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN VERB ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.88	0.88	0.75	15
weighted avg	1.00	0.93	0.93	15

Sentence: what is the first class fare on united flight <unk> from denver to boston
True tags: PRON AUX DET ADV NOUN NOUN ADP PROPN NOUN NUM ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN NOUN AUX ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0

	precision	recall	f1-score	support
8	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.83	0.78	0.63	14
weighted avg	0.96	0.86	0.83	14

Sentence: how much does flight ua 281 from boston to denver cost
True tags: ADV ADV AUX NOUN PROPN NUM ADP PROPN ADP PROPN VERB
Predicted tags: ADJ ADJ AUX NOUN PROPN VERB ADP PROPN ADP PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.73	11
macro avg	0.81	0.75	0.58	11
weighted avg	0.95	0.73	0.70	11

Sentence: does flight dl <unk> from philadelphia to denver fly on saturdays
True tags: AUX NOUN PROPN PROPN ADP PROPN ADP PROPN VERB ADP PROPN
Predicted tags: AUX NOUN PROPN AUX ADP PROPN ADP PROPN VERB ADP DET
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.60	0.75	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
accuracy			0.82	11
macro avg	0.75	0.93	0.74	11
weighted avg	0.95	0.82	0.86	11

Sentence: what airline is dl <unk>
True tags: DET NOUN AUX PROPN NUM
Predicted tags: PRON NOUN AUX PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.60	5
macro avg	0.75	0.67	0.44	5
weighted avg	0.90	0.60	0.53	5

Sentence: what first class airplane goes from philadelphia to san francisco and stops in dallas in the afternoon on monday
True tags: DET ADV NOUN NOUN VERB ADP PROPN ADP PROPN PROPN CCONJ VERB ADP PROPN ADP DET NOUN ADP NOUN
Predicted tags: PRON ADJ NOUN NOUN ADJ ADP PROPN ADP PROPN PROPN CCONJ VERB ADP PROPN ADP DET NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	1.00	0.50	0.67	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.84	19
macro avg	0.78	0.78	0.59	19
weighted avg	1.00	0.84	0.88	19

Sentence: what planes are used by twa
True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: PRON NOUN AUX VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.83	6
macro avg	0.86	0.86	0.71	6
weighted avg	1.00	0.83	0.83	6

Sentence: <unk> leaving denver to san francisco before 10 am what type of aircraft is used
True tags: VERB VERB PROPN ADP PROPN PROPN ADP NUM NOUN DET NOUN ADP NOUN AUX VERB
Predicted tags: AUX VERB PROPN ADP PROPN PROPN ADP NUM NOUN DET NOUN ADP NOUN AUX VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
9	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.93	0.95	0.92	15
weighted avg	0.97	0.93	0.94	15

Sentence: what kinds of planes are used by midway airlines
True tags: DET NOUN ADP NOUN AUX VERB ADP NOUN PROPN
Predicted tags: PRON AUX ADP NOUN AUX VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	0.33	0.50	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
accuracy			0.67	9
macro avg	0.71	0.76	0.55	9
weighted avg	0.89	0.67	0.65	9

Sentence: what type of aircraft leaves from boston to washington dc at 9 am during a weekday
True tags: DET NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP DET NOUN
Predicted tags: PRON NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN ADP NUM NOUN NUM DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
9	0.50	1.00	0.67	1
accuracy			0.88	16
macro avg	0.79	0.90	0.75	16
weighted avg	0.97	0.88	0.90	16

Sentence: what type of aircraft are flying from cleveland to dallas before noon
True tags: DET NOUN ADP NOUN AUX VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN ADP NOUN VERB VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.79	0.71	0.52	12
weighted avg	0.96	0.83	0.81	12

Sentence: what airplane types fly from pittsburgh to baltimore
True tags: DET NOUN NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.83	0.83	0.67	8

weighted avg   1.00   0.88   0.88   8

Sentence: what is ground transportation between the san francisco airport and the city
True tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN CCONJ DET PROPN
Predicted tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN CCONJ DET PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights on united leave la guardia for san jose and arrive around 10 pm
True tags: DET NOUN ADP PROPN VERB PROPN PROPN ADP PROPN PROPN CCONJ VERB ADP NUM NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN PROPN ADP PROPN PROPN CCONJ VERB ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.71	1.00	0.83	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.80	15
macro avg	0.84	0.69	0.56	15
weighted avg	0.90	0.80	0.77	15

Sentence: what ground transportation is available from the denver airport to downtown denver
True tags: DET NOUN NOUN AUX ADJ ADP DET PROPN PROPN ADP NOUN PROPN

Predicted tags: PRON NOUN NOUN AUX ADJ ADP DET PROPN PROPN ADP NOUN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.86	0.93	0.81	12
weighted avg	1.00	0.92	0.94	12

Sentence: list us air flights leaving saturday from charlotte airport around 1 pm

True tags: VERB PROPN PROPN NOUN VERB NOUN ADP PROPN PROPN ADP NUM NOUN

Predicted tags: VERB PROPN PROPN NOUN VERB NOUN ADP PROPN PROPN ADP PROPN NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.96	0.80	0.78	12
weighted avg	0.93	0.92	0.88	12

Sentence: could you tell me about ground transportation arrangements from the dallas airport to downtown dallas

True tags: AUX PRON VERB PRON ADP NOUN NOUN NOUN ADP DET PROPN PROPN ADP NOUN PROPN

Predicted tags: AUX PRON VERB PRON ADP NOUN NOUN NOUN ADP DET PROPN PROPN ADP NOUN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: please list the flights taking off and landing on general mitchell international airport
True tags: INTJ VERB DET NOUN VERB ADV CCONJ NOUN ADP PROPN PROPN PROPN PROPN
Predicted tags: INTJ VERB DET NOUN NOUN VERB CCONJ PRON ADP PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	0.50	0.50	0.50	2
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	1
6	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.77	13
macro avg	0.78	0.78	0.67	13
weighted avg	0.85	0.77	0.77	13

Sentence: i <unk> like to fly from cleveland to indianapolis tomorrow morning as early as possible what <unk> available
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN ADP ADV ADP ADJ PRON AUX ADJ
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN ADP NUM ADP NUM DET AUX ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	0.00	1.00	0.00	0
6	1.00	0.50	0.67	2
7	1.00	0.50	0.67	2
8	1.00	1.00	1.00	2
9	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.83	18
macro avg	0.82	0.82	0.67	18
weighted avg	1.00	0.83	0.87	18

Sentence: i need a flight from logan to atlanta this afternoon
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: give me the latest flight tomorrow on american airlines from milwaukee to tacoma
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like to fly from columbus to nashville tomorrow morning
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: and what is the last flight from denver to boston for tomorrow evening
True tags: CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list evening flights tomorrow from phoenix to detroit
True tags: VERB NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the flights on continental from indianapolis to san diego in the afternoon tomorrow

True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN
PROPN ADP DET NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN
PROPN ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: how many flights does northwest have leaving dulles
True tags: ADV ADJ NOUN AUX PROPN VERB VERB PROPN
Predicted tags: ADJ ADJ NOUN AUX PROPN VERB VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.86	0.75	0.69	8
weighted avg	0.85	0.75	0.70	8

Sentence: nonstop flights from new york city to las vegas on sunday
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP
NOUN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from los angeles to pittsburgh which arrive at pittsburgh on monday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN DET VERB ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.92	0.97	0.93	15
weighted avg	0.97	0.93	0.94	15

Sentence: show me all flights from philadelphia to dallas which arrive in dallas before 3 <unk> pm on saturday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN DET VERB ADP PROPN ADP NUM AUX NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.83	0.91	6
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.89	18
macro avg	0.83	0.87	0.73	18
weighted avg	0.97	0.89	0.90	18

Sentence: what flights leave pittsburgh and arrive in los angeles after 5 pm on thursday
True tags: DET NOUN VERB PROPN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN ADP NOUN
Predicted tags: PRON NOUN VERB PROPN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.88	0.88	0.75	14
weighted avg	1.00	0.93	0.93	14

Sentence: what is the earliest flight arriving in charlotte from <unk> louis on friday
True tags: PRON AUX DET ADJ NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what flights do you have from boston to pittsburgh on wednesday of next week after 6 pm
True tags: DET NOUN AUX PRON VERB ADP PROPN ADP PROPN ADP NOUN ADP ADJ NOUN ADP NUM NOUN
Predicted tags: PRON NOUN AUX PRON VERB ADP PROPN ADP PROPN ADP NOUN ADP ADJ NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	17
macro avg	0.94	0.89	0.85	17
weighted avg	0.97	0.94	0.92	17

Sentence: i <unk> like a flight from <unk> petersburg to miami on that next thursday
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP DET ADJ NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i <unk> like to travel from kansas city to chicago next wednesday
True tags: PRON AUX VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12

weighted avg   1.00   1.00   1.00   12

Sentence: i would like to fly from boston to philadelphia next thursday
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: tell me about flights from atlanta to charlotte next monday
True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights go from pittsburgh to baltimore after 8 <unk> next wednesday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV ADJ NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NUM NUM ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.83	0.78	0.63	12
weighted avg	0.96	0.83	0.81	12

Sentence: give me the fares for round trip flights from cleveland to miami next wednesday
True tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i want to leave chicago next tuesday and arrive in detroit around 6 pm
True tags: PRON VERB PART VERB PROPN ADJ NOUN CCONJ VERB ADP PROPN ADP NUM NOUN
Predicted tags: PRON VERB PART VERB PROPN ADJ NOUN CCONJ VERB ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	14

	precision	recall	f1-score	support
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i want a flight from montreal to washington dc
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me the flights leaving from atlanta for washington dc on thursday morning
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me flights from denver to dc on wednesday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please give me the flights from san francisco to washington dc
True tags: INTJ VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: INTJ VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the prices of all flights from atlanta to washington dc
True tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the latest flight on wednesday going from atlanta to washington dc
True tags: PRON AUX DET ADJ NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list flights from toronto to washington dc saturday am
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to see the flights from atlanta to washington dc
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12

weighted avg   1.00   1.00   1.00   12

Sentence: i <unk> sorry i want to book a flight from atlanta to denver colorado
True tags: PRON AUX ADJ PRON VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PRON VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	0.00	1.00	0.00	0
accuracy			0.86	14
macro avg	0.85	0.85	0.73	14
weighted avg	0.95	0.86	0.86	14

Sentence: i would like a list of round trip flights between indianapolis and orlando florida for the twenty seventh and the twenty eighth of december
True tags: PRON AUX VERB DET NOUN ADP NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN ADP DET NUM ADJ CCONJ DET NUM ADJ ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN ADP DET ADJ ADJ CCONJ DET ADJ ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	2
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	2
accuracy			0.92	24
macro avg	0.95	0.90	0.87	24
weighted avg	0.96	0.92	0.89	24

Sentence: may i have a listing of flights on monday from minneapolis to long beach california please
True tags: AUX PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN INTJ
Predicted tags: NOUN PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
13	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.97	0.88	0.86	16
weighted avg	0.95	0.94	0.91	16

Sentence: please give all flights from dallas to oakland california monday
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: on tuesday the twenty third flights from philadelphia to san francisco on american airlines
True tags: ADP NOUN DET NUM ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN DET ADJ ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.92	0.83	0.78	14
weighted avg	0.96	0.93	0.90	14

Sentence: what is the cheapest first class fare from cleveland to miami on us air on february twenty fourth
True tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NUM ADJ
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NUM NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.67	0.80	3
8	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
accuracy			0.94	18
macro avg	0.94	0.96	0.93	18
weighted avg	0.97	0.94	0.95	18

Sentence: cheapest round trip fare from or indianapolis to orlando on december twenty fifth
True tags: ADJ NOUN NOUN NOUN ADP CCONJ PROPN ADP PROPN ADP NOUN NUM ADJ
Predicted tags: ADJ NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NUM ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
7	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.94	0.83	0.80	13
weighted avg	0.95	0.92	0.89	13

Sentence: i would like to fly from dallas to denver on the morning of august twenty seventh leaving at <unk>
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN NUM ADJ VERB ADP NUM
Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN NUM ADJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
12	1.00	1.00	1.00	1
accuracy			0.95	19
macro avg	0.97	0.95	0.95	19
weighted avg	0.96	0.95	0.94	19

Sentence: give me the flights from indianapolis to orlando on december twenty seventh and twenty eighth
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NUM ADJ CCONJ NUM ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NUM ADJ CCONJ NUM NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.50	0.67	2
9	0.67	1.00	0.80	2
10	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.96	0.94	0.94	15
weighted avg	0.96	0.93	0.93	15

Sentence: i would like to book a flight going from tampa to seattle on may twenty sixth i would like to stop in milwaukee on the way

True tags: PRON AUX VERB PART VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN NUM ADJ PRON AUX VERB PART VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX VERB PART VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN NUM ADJ PRON AUX ADJ PART VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	0.80	0.89	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
12	1.00	1.00	1.00	2
accuracy			0.96	26
macro avg	0.95	0.98	0.96	26
weighted avg	0.98	0.96	0.97	26

Sentence: what is the cheapest one way fare from san francisco to boston on wednesday august twenty first
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM ADJ
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: which flights are available from tacoma to san jose in the morning on april twenty second
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP NOUN NUM ADJ

Predicted tags: DET NOUN VERB ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP NOUN NUM ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
8	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.88	0.88	0.75	16
weighted avg	1.00	0.94	0.94	16

Sentence: list all round trip flights between indianapolis and orlando on the twenty seventh of december

True tags: VERB DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN ADP DET NUM ADJ ADP NOUN

Predicted tags: VERB DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN ADP DET ADJ ADJ ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.94	0.88	0.83	15
weighted avg	0.97	0.93	0.91	15

Sentence: what is hp

True tags: PRON AUX PROPN

Predicted tags: PRON AUX PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

```
     accuracy                      1.00      3
    macro avg      1.00     1.00     1.00       3
  weighted avg      1.00     1.00     1.00       3
```

Sentence: define airline us
True tags: VERB NOUN PROPN
Predicted tags: VERB NOUN PROPN
Classification Report:

```
          precision    recall  f1-score   support

       1      1.00      1.00      1.00        1
       3      1.00      1.00      1.00        1
       4      1.00      1.00      1.00        1

     accuracy                      1.00      3
    macro avg      1.00     1.00     1.00       3
  weighted avg      1.00     1.00     1.00       3
```

Sentence: code ff
True tags: NOUN PROPN
Predicted tags: NOUN NOUN
Classification Report:

```
          precision    recall  f1-score   support

       1      1.00      0.00      0.00        1
       3      0.50      1.00      0.67        1

     accuracy                      0.50      2
    macro avg      0.75     0.50     0.33       2
  weighted avg      0.75     0.50     0.33       2
```

Sentence: from las vegas to new york a nonstop twa and fare
True tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN PROPN CCONJ NOUN
Predicted tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN PROPN CCONJ NOUN
Classification Report:

```
          precision    recall  f1-score   support

       1      1.00      1.00      1.00        5
       2      1.00      1.00      1.00        2
       3      1.00      1.00      1.00        2
       5      1.00      1.00      1.00        1
      10      1.00      1.00      1.00        1

     accuracy                      1.00     11
    macro avg      1.00     1.00     1.00      11
  weighted avg      1.00     1.00     1.00      11
```

Sentence: airline that stands for dl

True tags: NOUN ADP VERB ADP PROPN
Predicted tags: NOUN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: list round trip flights between boston and oakland using twa
True tags: VERB NOUN NOUN NOUN ADP PROPN CCONJ PROPN VERB PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
10	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.95	0.90	0.90	10
weighted avg	0.93	0.90	0.89	10

Sentence: i <unk> like a twa flight from las vegas to new york nonstop
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Predicted tags: PRON AUX VERB DET PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13

weighted avg   1.00   1.00   1.00   13

Sentence: what airline is <unk>
True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
accuracy			0.50	4
macro avg	0.70	0.60	0.33	4
weighted avg	0.88	0.50	0.42	4

Sentence: what airline is dl
True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN AUX PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.75	4
macro avg	0.80	0.80	0.60	4
weighted avg	1.00	0.75	0.75	4

Sentence: find a flight between denver and oakland the flight should leave in the afternoon and arrive near 5 pm the flight should also be nonstop
True tags: VERB DET NOUN ADP PROPN CCONJ PROPN DET NOUN AUX VERB ADP DET NOUN CCONJ VERB ADP NUM NOUN DET NOUN AUX ADV AUX NOUN
Predicted tags: VERB DET NOUN ADP PROPN CCONJ PROPN DET NOUN VERB VERB ADP DET NOUN CCONJ VERB VERB NUM NOUN DET NOUN ADJ ADJ AUX NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	6
4	0.60	1.00	0.75	3
5	1.00	1.00	1.00	4

	precision	recall	f1-score	support
7	0.00	1.00	0.00	0
8	1.00	0.33	0.50	3
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	2
11	1.00	0.00	0.00	1
accuracy		0.84	25	
macro avg	0.86	0.80	0.70	25
weighted avg	0.95	0.84	0.85	25

Sentence: i need a flight on american airlines from miami to chicago that arrives around 5 pm
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy		1.00	16	
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: flights from kansas city to cleveland on wednesday arriving before 5 pm
True tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy		1.00	12	
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights depart baltimore on friday and arrive in san francisco by 8 pm

True tags: DET NOUN VERB PROPN ADP NOUN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN
Predicted tags: PRON NOUN VERB PROPN ADP NOUN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.88	0.88	0.75	14
weighted avg	1.00	0.93	0.93	14

Sentence: i <unk> like a nonstop flight from atlanta to baltimore that <unk> in around 7 pm
True tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP VERB ADP ADP NUM NOUN
Predicted tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP AUX ADP ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
9	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.94	0.94	0.92	16
weighted avg	0.97	0.94	0.94	16

Sentence: what nonstop flights between boston and washington arrive after 5 <unk> pm
True tags: DET NOUN NOUN ADP PROPN CCONJ PROPN VERB ADP NUM ADV NOUN
Predicted tags: PRON NOUN NOUN ADP PROPN CCONJ PROPN VERB ADP NUM NUM NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.83	0.78	0.63	12
weighted avg	0.96	0.83	0.81	12

Sentence: all flights pittsburgh to baltimore on thursday arrival by 10 am
True tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NOUN
Predicted tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all flights direct and connecting from boston to pittsburgh that arrive in pittsburgh before 10 am
True tags: VERB PRON DET NOUN ADJ CCONJ VERB ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN ADJ CCONJ VERB ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1

```
           accuracy                      1.00       18
          macro avg       1.00     1.00     1.00      18
        weighted avg       1.00     1.00     1.00       18
```

Sentence: cleveland to miami on wednesday arriving before 4 pm
True tags: PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Predicted tags: ADP ADP PROPN ADP NOUN VERB ADP NUM NOUN
Classification Report:

```
               precision   recall  f1-score   support

           1       1.00     0.50     0.67       2
           2       0.75     1.00     0.86       3
           3       1.00     1.00     1.00       2
           4       1.00     1.00     1.00       1
           9       1.00     1.00     1.00       1

    accuracy                        0.89        9
   macro avg       0.95     0.90     0.90       9
weighted avg       0.92     0.89     0.88        9
```

Sentence: show me airlines between boston and san francisco
True tags: VERB PRON NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

```
               precision   recall  f1-score   support

           1       1.00     1.00     1.00       3
           2       1.00     1.00     1.00       1
           3       1.00     1.00     1.00       1
           4       1.00     1.00     1.00       1
           6       1.00     1.00     1.00       1
          10       1.00     1.00     1.00        1

    accuracy                        1.00        8
   macro avg       1.00     1.00     1.00       8
weighted avg       1.00     1.00     1.00        8
```

Sentence: show me the airlines that fly from san francisco to boston
True tags: VERB PRON DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP VERB ADP PROPN PROPN ADP
PROPN
Classification Report:

```
               precision   recall  f1-score   support

           1       1.00     1.00     1.00       3
           2       1.00     1.00     1.00       3
           3       1.00     1.00     1.00       1
           4       1.00     1.00     1.00       2
           5       1.00     1.00     1.00       1
```

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what airlines fly from boston to denver
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.86	0.86	7

Sentence: what airlines have flights from baltimore to seattle
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.83	0.83	0.67	8
weighted avg	1.00	0.88	0.88	8

Sentence: what airlines have flights from boston to philadelphia that leave before 630 am
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON NOUN VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: are there any airlines that have flights from boston to philadelphia that leave before 630 am
True tags: VERB PRON DET NOUN ADP VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN ADP VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: show me airlines that have flights between toronto and detroit between detroit and <unk> louis and between <unk> louis and toronto
True tags: VERB PRON NOUN ADP VERB NOUN ADP PROPN CCONJ PROPN ADP PROPN CCONJ PROPN PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Predicted tags: VERB PRON NOUN ADP VERB NOUN ADP PROPN CCONJ PROPN ADP PROPN CCONJ CCONJ PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.88	0.93	8
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
10	0.80	1.00	0.89	4

	precision	recall	f1-score	support
accuracy			0.95	21
macro avg	0.97	0.98	0.97	21
weighted avg	0.96	0.95	0.95	21

Sentence: which airlines fly between boston and baltimore
True tags: DET NOUN VERB ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: does any airline have an early afternoon flight from boston to pittsburgh
True tags: AUX DET NOUN VERB DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: AUX DET NOUN VERB DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: please show me airlines with flights from philadelphia to dallas
True tags: INTJ VERB PRON NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: which airlines fly from boston to san francisco
True tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: which airlines have flights between charlotte and newark
True tags: DET NOUN VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me all flights from san francisco to new york nonstop
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me nonstop flights from toronto to <unk> petersburg
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all round trip flights from miami to new york nonstop
True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: nonstop flights seattle to kansas city
True tags: NOUN NOUN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i want to fly from atlanta to philadelphia nonstop
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest nonstop flight from washington to san francisco
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: please list nonstop flights from las vegas to new york on america west
True tags: INTJ VERB NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: INTJ VERB NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me first class round trip flights from new york to miami i want the cheapest first class fare please
True tags: VERB PRON ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET ADJ ADJ NOUN NOUN INTJ
Predicted tags: VERB PRON ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET ADJ ADJ NOUN NOUN NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	6
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	3
9	0.00	1.00	0.00	0
13	1.00	0.00	0.00	1
accuracy			0.95	20
macro avg	0.89	0.89	0.78	20
weighted avg	1.00	0.95	0.95	20

Sentence: show me which flights from san francisco to pittsburgh on a monday are first class
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN AUX ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN VERB ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2

```
       6     1.00    1.00    1.00       1
       7     1.00    1.00    1.00       1
       8     1.00    0.00    0.00       1

  accuracy                     0.93      15
 macro avg      0.94    0.88    0.83      15
weighted avg       0.97    0.93    0.91       15
```

Sentence: give me flights from baltimore to denver on united that offer first class
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN ADP ADJ ADJ NOUN
Classification Report:

```
        precision   recall f1-score  support

       1     1.00    1.00    1.00       3
       2     1.00    1.00    1.00       4
       3     1.00    0.67    0.80       3
       4     1.00    1.00    1.00       1
       6     1.00    1.00    1.00       1
       7     0.50    1.00    0.67       1

  accuracy                     0.92      13
 macro avg      0.92    0.94    0.91      13
weighted avg       0.96    0.92    0.93       13
```

Sentence: first class flights pittsburgh to newark monday morning
True tags: ADJ NOUN NOUN PROPN ADP PROPN NOUN NOUN
Predicted tags: ADJ NOUN NOUN PROPN ADP PROPN NOUN NOUN
Classification Report:

```
        precision   recall f1-score  support

       1     1.00    1.00    1.00       2
       2     1.00    1.00    1.00       1
       3     1.00    1.00    1.00       4
       7     1.00    1.00    1.00       1

  accuracy                     1.00       8
 macro avg      1.00    1.00    1.00       8
weighted avg       1.00    1.00    1.00       8
```

Sentence: first class fares from dallas to baltimore please
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN INTJ
Predicted tags: ADJ NOUN NOUN ADP PROPN ADP PROPN INTJ
Classification Report:

```
        precision   recall f1-score  support

       1     1.00    1.00    1.00       2
       2     1.00    1.00    1.00       2
```

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me all united airlines first class flights
True tags: VERB PRON DET PROPN PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET PROPN PROPN ADJ NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: first class price san francisco pittsburgh round trip
True tags: ADJ NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Predicted tags: ADJ NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
7	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: how much is a first class ticket from baltimore to san francisco
True tags: ADV ADV AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: ADJ ADJ AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
7	0.33	1.00	0.50	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.83	12
macro avg	0.90	0.86	0.79	12
weighted avg	0.94	0.83	0.79	12

Sentence: first class american flight from philadelphia to dallas on wednesday
True tags: ADJ NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: ADJ NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
7	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights first class on american airlines between dallas and philadelphia
True tags: VERB NOUN ADJ NOUN ADP PROPN PROPN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN ADJ NOUN ADP PROPN PROPN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what are the first class fares from dallas to baltimore
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me one way flights from tampa to <unk> louis departing before 10 am first class
True tags: VERB PRON NUM NOUN NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN ADJ NOUN
Predicted tags: VERB PRON NUM NOUN NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what flights leave san francisco on monday night and arrive at atlanta later in the evening
True tags: DET NOUN VERB PROPN PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN ADJ ADP DET NOUN
Predicted tags: PRON NOUN VERB PROPN PROPN ADP NOUN PROPN CCONJ VERB ADP PROPN PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.81	16
macro avg	0.82	0.78	0.66	16
weighted avg	0.93	0.81	0.81	16

Sentence: please list all flights into denver before noon on united airlines and northwest airlines
True tags: INTJ VERB DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN CCONJ PROPN PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what are the coach fares for flights from pittsburgh to denver
True tags: PRON AUX DET PROPN NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET PROPN NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what are the flights on tuesday october first from atlanta to baltimore
True tags: PRON AUX DET NOUN ADP NOUN PROPN ADJ ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN PROPN ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what are the coach fares from la to charlotte monday morning
True tags: PRON AUX DET PROPN NOUN ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX DET PROPN NOUN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me dallas ground transport
True tags: VERB PRON PROPN NOUN NOUN
Predicted tags: VERB PRON PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: show me ground transportation in denver
True tags: VERB PRON NOUN NOUN ADP PROPN

Predicted tags: VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what ground transport is available in minneapolis
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7
weighted avg	1.00	0.86	0.86	7

Sentence: please show me ground transportation in denver
True tags: INTJ VERB PRON NOUN NOUN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what kind of ground transportation is there in dallas

True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN
Predicted tags: PRON NOUN ADP NOUN NOUN AUX PRON ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.78	9
macro avg	0.79	0.71	0.52	9
weighted avg	0.94	0.78	0.74	9

Sentence: what ground transportation is available in charlotte
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7
weighted avg	1.00	0.86	0.86	7

Sentence: what <unk> the ground transportation like at pittsburgh
True tags: PRON AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8

| | macro avg | 0.93 | 0.86 | 0.81 | 8 |
| weighted avg | | 0.94 | 0.88 | 0.83 | 8 |

Sentence: ground transportation in baltimore
True tags: NOUN NOUN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: what ground transportation is there in dallas
True tags: DET NOUN NOUN AUX PRON ADP PROPN
Predicted tags: PRON NOUN NOUN AUX PRON ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.92	0.83	0.78	7
weighted avg	0.93	0.86	0.81	7

Sentence: what ground transportation is available in baltimore
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7

weighted avg   1.00   0.86   0.86   7

Sentence: ground transport phoenix
True tags: NOUN NOUN PROPN
Predicted tags: NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: show me information on ground transportation for dallas
True tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like an american flight from toronto to san diego with a stopover in denver please
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN INTJ
Predicted tags: PRON AUX VERB DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN INTJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	17

```
   macro avg      1.00    1.00    1.00       17
weighted avg       1.00    1.00    1.00       17
```

Sentence: can i go from boston to san francisco with a stopover in denver
True tags: AUX PRON VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN
Predicted tags: AUX PRON VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN
Classification Report:

```
           precision   recall  f1-score   support

       1      1.00     1.00     1.00        4
       2      1.00     1.00     1.00        4
       3      1.00     1.00     1.00        1
       4      1.00     1.00     1.00        1
       5      1.00     1.00     1.00        1
       6      1.00     1.00     1.00        1
       8      1.00     1.00     1.00        1

 accuracy                       1.00       13
 macro avg      1.00    1.00    1.00       13
weighted avg       1.00    1.00    1.00       13
```

Sentence: please show me flights from boston to denver with a stopover in philadelphia
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN
Predicted tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN
Classification Report:

```
           precision   recall  f1-score   support

       1      1.00     1.00     1.00        3
       2      1.00     1.00     1.00        4
       3      1.00     1.00     1.00        2
       4      1.00     1.00     1.00        1
       5      1.00     1.00     1.00        1
       6      1.00     1.00     1.00        1
      13      1.00     1.00     1.00        1

 accuracy                       1.00       13
 macro avg      1.00    1.00    1.00       13
weighted avg       1.00    1.00    1.00       13
```

Sentence: show me the flights from new york to los angeles with stop in milwaukee
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Classification Report:

```
              precision    recall  f1-score   support

           1      1.00      1.00      1.00         5
           2      1.00      1.00      1.00         4
           3      1.00      1.00      1.00         2
           4      1.00      1.00      1.00         1
           5      1.00      1.00      1.00         1
           6      1.00      1.00      1.00         1

    accuracy                          1.00        14
   macro avg      1.00      1.00      1.00        14
weighted avg      1.00      1.00      1.00        14
```

Sentence: are there any flights from denver to pittsburgh with stops in atlanta
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Classification Report:

```
              precision    recall  f1-score   support

           1      1.00      1.00      1.00         3
           2      1.00      1.00      1.00         4
           3      1.00      1.00      1.00         2
           4      1.00      1.00      1.00         1
           5      1.00      1.00      1.00         1
           6      1.00      1.00      1.00         1

    accuracy                          1.00        12
   macro avg      1.00      1.00      1.00        12
weighted avg      1.00      1.00      1.00        12
```

Sentence: are there any flights from boston to san francisco which stop in denver
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN DET VERB ADP PROPN
Classification Report:

```
              precision    recall  f1-score   support

           1      1.00      1.00      1.00         4
           2      1.00      1.00      1.00         3
           3      1.00      1.00      1.00         1
           4      1.00      1.00      1.00         2
           5      0.50      1.00      0.67         1
           6      1.00      0.50      0.67         2

    accuracy                          0.92        13
   macro avg      0.92      0.92      0.89        13
weighted avg      0.96      0.92      0.92        13
```

Sentence: all do you have a flight from washington to boston that stops in philadelphia
True tags: DET AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: DET AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: show me the flights from san diego to newark by way of houston
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: find a flight on american airlines from boston to san francisco that makes a stopover in denver
True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN ADP VERB DET NOUN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN ADP VERB DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: i <unk> looking for a flight that goes from ontario to westchester and stops in chicago
True tags: PRON AUX VERB ADP DET NOUN ADP VERB ADP PROPN ADP PROPN CCONJ VERB ADP PROPN
Predicted tags: PRON AUX VERB ADP DET NOUN ADP VERB ADP PROPN ADP PROPN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: list the flights from philadelphia to san francisco via dallas
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: are there any flights from denver to atlanta with stops in pittsburgh

True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN

Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i need a flight from baltimore to seattle that stops in minneapolis

True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN

Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like a flight that leaves on friday from philadelphia to dallas that makes a stop in atlanta

True tags: PRON AUX VERB DET NOUN ADP VERB ADP NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN ADP PROPN

Predicted tags: PRON AUX VERB DET NOUN ADP VERB ADP NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	6
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: list flights from philadelphia to dallas that stop in atlanta
True tags: VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the available ground transportation between san francisco and downtown
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN CCONJ NOUN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what ground transportation is there from the airport in atlanta to downtown
True tags: DET NOUN NOUN VERB PRON ADP DET NOUN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN NOUN AUX PRON ADP DET NOUN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	0.00	0.00	1
5	1.00	0.50	0.67	2
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.83	12
macro avg	0.79	0.79	0.62	12
weighted avg	0.96	0.83	0.83	12

Sentence: what flights go from dallas to denver leaving after 3 pm
True tags: DET NOUN VERB ADP PROPN ADP PROPN VERB ADP NUM NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.81	0.71	0.54	11
weighted avg	0.94	0.82	0.78	11

Sentence: can you list all flights from chicago to <unk> louis that depart after 12 noon
True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP VERB ADP NUM NOUN
Predicted tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1

```
  accuracy                     1.00      15
 macro avg      1.00     1.00     1.00      15
weighted avg     1.00     1.00     1.00       15
```

Sentence: is there a flight between philadelphia and denver that leaves philadelphia around 2 <unk> in the afternoon
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP VERB PROPN ADP NUM ADV ADP DET NOUN
Predicted tags: AUX PRON DET NOUN ADP PROPN CCONJ PROPN ADP VERB PROPN ADP VERB AUX ADP DET NOUN
Classification Report:

```
         precision   recall  f1-score   support

    1       1.00     1.00     1.00        3
    2       1.00     1.00     1.00        4
    3       1.00     1.00     1.00        2
    4       0.50     0.50     0.50        2
    5       1.00     1.00     1.00        2
    6       1.00     1.00     1.00        1
    8       0.00     1.00     0.00        0
    9       1.00     0.00     0.00        1
   10       1.00     1.00     1.00        1
   11       1.00     0.00     0.00        1

  accuracy                    0.82       17
 macro avg    0.85     0.75     0.65       17
weighted avg     0.94     0.82     0.82       17
```

Sentence: what flights leaving pittsburgh arrive in denver and leave after say 6 <unk> at night
True tags: DET NOUN VERB PROPN VERB ADP PROPN CCONJ VERB ADP VERB NUM ADV ADP NOUN
Predicted tags: PRON NOUN VERB PROPN VERB ADP PROPN CCONJ VERB ADP NUM NUM AUX ADP PROPN
Classification Report:

```
         precision   recall  f1-score   support

    1       0.67     1.00     0.80        2
    2       1.00     1.00     1.00        3
    3       1.00     0.50     0.67        2
    4       1.00     0.75     0.86        4
    5       1.00     0.00     0.00        1
    6       0.00     1.00     0.00        0
    8       0.00     1.00     0.00        0
    9       0.50     1.00     0.67        1
   10       1.00     1.00     1.00        1
   11       1.00     0.00     0.00        1

  accuracy                    0.73       15
```

| | macro avg | 0.72 | 0.72 | 0.50 | 15 |
| weighted avg | | 0.92 | 0.73 | 0.74 | 15 |

Sentence: dallas to houston after <unk> am
True tags: PROPN ADP PROPN ADP NUM NOUN
Predicted tags: PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.83	6
macro avg	0.92	0.75	0.70	6
weighted avg	0.89	0.83	0.77	6

Sentence: is there a flight around 3 pm from charlotte to minneapolis
True tags: VERB PRON DET NOUN ADP NUM NOUN ADP PROPN ADP PROPN
Predicted tags: AUX PRON DET NOUN ADP NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.83	0.75	0.60	11
weighted avg	0.94	0.82	0.78	11

Sentence: i like to see the information for flights from pittsburgh to san francisco leaving pittsburgh after 12 pm
True tags: PRON VERB PART VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB PROPN ADP NUM NOUN
Predicted tags: PRON VERB PART VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	18
macro avg	1.00	1.00	1.00	18
weighted avg	1.00	1.00	1.00	18

Sentence: a listing of all flights from boston to baltimore before 10 am on thursday
True tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Predicted tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i <unk> like a flight from san diego to toronto on alaska airlines leaving around 1 pm
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.94	17
macro avg	0.96	0.88	0.85	17
weighted avg	0.96	0.94	0.92	17

Sentence: i want a flight from atlanta to washington that leaves after 3 pm
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list all flights going from boston to atlanta on wednesday after 6 <unk> pm on wednesday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.94	16
macro avg	0.93	0.86	0.81	16
weighted avg	0.97	0.94	0.92	16

Sentence: i need flight information for a flight departing from cleveland to milwaukee wednesday after 6 pm
True tags: PRON VERB NOUN NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what flights go from boston to denver before 10 am
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: list all flights from boston to atlanta after 6 <unk> pm on wednesday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NUM NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.93	0.86	0.81	13
weighted avg	0.96	0.92	0.90	13

Sentence: i <unk> looking for flights from pittsburgh to philadelphia leaving before 9 am
True tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Predicted tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list all flights going from boston to atlanta before 7 am on thursday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i need flight information for flights departing from cleveland to milwaukee on wednesday after 5 pm
True tags: PRON VERB NOUN NOUN ADP NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: can you find me another flight from cincinnati to new york on saturday before 6 pm
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NUM NOUN
Predicted tags: AUX PRON VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.97	0.88	0.86	16
weighted avg	0.95	0.94	0.91	16

Sentence: i would like a flight from san francisco to pittsburgh on friday morning after 10 <unk>
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NUM ADV
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1

	accuracy		0.94	16
macro avg	0.94	0.89	0.85	16
weighted avg	0.97	0.94	0.92	16

Sentence: list all flights going from boston to atlanta before 5 <unk> am on thursday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1

	accuracy		0.93	14
macro avg	0.93	0.86	0.81	14
weighted avg	0.96	0.93	0.90	14

Sentence: what is the last flight from baltimore to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	accuracy		1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what <unk> the latest flight from san jose to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the earliest flight from pittsburgh to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show first flight from philadelphia to dallas
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.90	0.80	0.73	7
weighted avg	0.93	0.86	0.81	7

Sentence: what <unk> the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the shortest flight from milwaukee to <unk> petersburg
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: shortest evening flight from tampa to cincinnati
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what is the earliest flight you have leaving boston heading to philadelphia
True tags: PRON AUX DET ADJ NOUN PRON VERB VERB PROPN VERB ADP PROPN

Predicted tags: PRON AUX DET ADJ NOUN PRON VERB VERB PROPN ADP ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.94	0.96	0.93	12
weighted avg	0.96	0.92	0.92	12

Sentence: what is the earliest flight from boston to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: flights from denver to westchester county new york weekdays
True tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the last flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest flight leaving denver going to boston
True tags: PRON AUX DET ADJ NOUN VERB PROPN VERB ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN VERB PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the earliest flight from ontario to memphis
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the last flight leaving san francisco going to washington on friday
True tags: PRON AUX DET ADJ NOUN VERB PROPN PROPN VERB ADP PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN VERB PROPN PROPN VERB ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what is the earliest morning flight from san francisco to boston
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what <unk> the earliest flight from dallas to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to find the earliest flight possible from san francisco to atlanta
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADJ ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET ADJ NOUN NUM ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.50	0.67	2
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
12	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.93	14
macro avg	0.90	0.95	0.87	14
weighted avg	1.00	0.93	0.95	14

Sentence: what is the latest evening flight leaving san francisco for washington
True tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the first flight from boston to atlanta and what is the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: what <unk> the cheapest one way ticket from baltimore to atlanta
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what <unk> the cheapest round trip fare between boston and washington
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest round trip fare between boston and san francisco
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the cheapest round trip fare from atlanta to pittsburgh
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest fare from baltimore to dallas in any class
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the cheapest one way fare from boston to washington
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: i <unk> interested in the cheapest fare from washington to fort worth
True tags: PRON AUX VERB ADP DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like to book a flight from denver to pittsburgh on july fifteenth i <unk> like it to be the cheapest flight
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ PRON AUX VERB PRON PART AUX DET ADJ NOUN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ PRON AUX VERB VERB PART VERB DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.60	1.00	0.75	3
5	1.00	1.00	1.00	2

	precision	recall	f1-score	support
6	1.00	0.67	0.80	3
7	1.00	1.00	1.00	2
8	1.00	0.67	0.80	3
12	1.00	1.00	1.00	2
accuracy			0.91	23
macro avg	0.96	0.93	0.93	23
weighted avg	0.95	0.91	0.92	23

Sentence: what is the cheapest fare from dallas to denver on delta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: can you show me the cheapest round trip flights between denver and pittsburgh
True tags: AUX PRON VERB PRON DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Predicted tags: AUX PRON VERB PRON DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what <unk> the lowest round trip fare from denver to atlanta
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to find the cheapest fare from atlanta to dallas
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2

	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: lowest fare from san francisco to los angeles
True tags: ADJ NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: i <unk> like the lowest fare from denver to pittsburgh
True tags: PRON AUX VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: okay i <unk> want to know the cheapest fare from atlanta to boston
True tags: INTJ PRON ADV VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.88	0.82	0.71	13
weighted avg	0.95	0.85	0.82	13

Sentence: what are the lowest one way fares from atlanta to denver
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest one way fare from any city to another
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP DET PROPN ADP DET
Predicted tags: PRON AUX DET ADJ NUM NOUN NOUN ADP DET PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.67	0.80	3

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.94	0.96	0.93	12
weighted avg	0.96	0.92	0.92	12

Sentence: i <unk> like the cheapest cost fare to fort worth from boston
True tags: PRON AUX VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the cheapest one way fares from san diego to miami
True tags: VERB PRON DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights leave philadelphia for dallas and depart before noon on american airlines
True tags: DET NOUN VERB PROPN ADP PROPN CCONJ VERB ADP NOUN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB PROPN ADP PROPN CCONJ VERB ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: i need a flight from cleveland to dallas that leaves before noon see if too much information
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN VERB ADP ADV ADV NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN VERB NOUN NUM VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.80	0.89	5
3	0.75	1.00	0.86	3
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
11	1.00	0.00	0.00	2
accuracy			0.82	17
macro avg	0.81	0.85	0.70	17
weighted avg	0.91	0.82	0.80	17

Sentence: list all flights leaving denver on continental on sunday after 2134
True tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP NUM
Predicted tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP NUM
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: all flights from san francisco to boston leaving before noon
True tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Predicted tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i need a flight from cincinnati to san jose leaving after 6 in the evening
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM ADP DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: flights from milwaukee to orlando one way
True tags: NOUN ADP PROPN ADP PROPN NUM NOUN

Predicted tags: NOUN ADP PROPN ADP PROPN NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i want to fly from baltimore to dallas round trip
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: hi i want a round trip ticket to dallas
True tags: INTJ PRON VERB DET NOUN NOUN NOUN ADP PROPN
Predicted tags: PROPN PRON VERB DET NOUN NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.93	0.86	0.81	9
weighted avg	0.94	0.89	0.85	9

Sentence: what would be cost of a round trip from pittsburgh to san francisco

True tags: PRON AUX AUX NOUN ADP DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX AUX VERB ADP DET NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	2
accuracy			0.92	13
macro avg	0.86	0.95	0.83	13
weighted avg	1.00	0.92	0.95	13

Sentence: show me round trip fares from toronto to detroit on delta northwest us air and united airlines
True tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN PROPN PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN PROPN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	8
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: give me all the flights from new york to miami round trip
True tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN NOUN NOUN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: how much is a round trip fare from nashville to seattle
True tags: ADV ADV AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: ADJ ADJ AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
accuracy			0.82	11
macro avg	0.86	0.86	0.71	11
weighted avg	1.00	0.82	0.82	11

Sentence: what is the fare going from baltimore to boston one way on november seventh
True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: show me the round trip flights between phoenix and salt lake city

True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN

Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the fare going from baltimore to atlanta one way on november seventh

True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ

Predicted tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: now i want to see return flights from miami to new york

True tags: ADV PRON VERB PART VERB NOUN NOUN ADP PROPN ADP PROPN PROPN

Predicted tags: VERB PRON VERB PART VERB NOUN NOUN ADP PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.92	12
macro avg	0.95	0.86	0.83	12
weighted avg	0.94	0.92	0.88	12

Sentence: do you have an <unk> flight from denver to san francisco
True tags: AUX PRON VERB DET NUM NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: AUX PRON VERB DET AUX NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Sentence: i would like to book a flight from chicago to seattle on june fourth
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1

accuracy		0.93	14	
macro avg	0.96	0.89	0.87	14
weighted avg	0.95	0.93	0.90	14

Sentence: are there any flights from long beach to columbus on wednesday april sixth

True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ

Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like flights going from boston to atlanta leaving on august sixth in the afternoon

True tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN ADJ ADP DET NOUN

Predicted tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN ADJ ADP DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: i would like to find out what flights there are on friday june eleventh from <unk> petersburg to milwaukee and then from milwaukee to tacoma thank you

True tags: PRON AUX VERB PART VERB ADV DET NOUN PRON VERB ADP NOUN NOUN ADJ ADP PROPN PROPN ADP PROPN CCONJ ADV ADP PROPN ADP PROPN VERB PRON

Predicted tags: PRON AUX VERB PART VERB VERB DET NOUN PRON AUX ADP NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN CCONJ NUM ADP PROPN ADP PROPN ADP PRON

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	0.83	1.00	0.91	5
3	0.75	1.00	0.86	3
4	0.67	0.50	0.57	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	3
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
9	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
12	1.00	1.00	1.00	1
accuracy			0.81	27
macro avg	0.81	0.79	0.67	27
weighted avg	0.87	0.81	0.78	27

Sentence: i need a flight from chicago to dallas on continental on june fifth

True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ

Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like a flight on july ninth from orlando to kansas city in the afternoon

True tags: PRON AUX VERB DET NOUN ADP NOUN ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN

Predicted tags: PRON AUX VERB DET NOUN ADP NOUN NUM ADP PROPN ADP PROPN PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
accuracy			0.94	16
macro avg	0.89	0.89	0.78	16
weighted avg	1.00	0.94	0.94	16

Sentence: i <unk> like to arrange a trip to baltimore on january first
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: okay and then from pittsburgh i <unk> like to travel to atlanta on september fourth
True tags: INTJ CCONJ ADV ADP PROPN PRON AUX VERB PART VERB ADP PROPN ADP NOUN ADJ
Predicted tags: PROPN CCONJ CCONJ ADP PROPN PRON AUX ADP PART VERB ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.75	1.00	0.86	3
3	0.50	1.00	0.67	1
4	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
10	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
12	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.73	15
macro avg	0.86	0.68	0.61	15
weighted avg	0.84	0.73	0.66	15

Sentence: list the flights from westchester county to denver on june seventh
True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: flights from atlanta august second
True tags: NOUN ADP PROPN NOUN ADJ
Predicted tags: NOUN ADP PROPN NOUN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.80	0.80	0.60	5
weighted avg	1.00	0.80	0.80	5

Sentence: what are the flights between pittsburgh and baltimore on august tenth
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: on april first i need a flight going from phoenix to san diego
True tags: ADP NOUN ADJ PRON VERB DET NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN ADJ PRON VERB DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me a list of flights from denver to baltimore on united for august third
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	5

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: what are the flights from san jose to nashville on thursday the twentieth
True tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i need a ticket from nashville to seattle
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: how much does it cost to fly on delta from dallas to baltimore
True tags: ADV ADV AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN

Predicted tags: ADJ ADJ AUX AUX VERB PART VERB ADP PROPN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
6	1.00	0.00	0.00	1
7	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
11	1.00	0.00	0.00	2
12	1.00	1.00	1.00	1
accuracy			0.77	13
macro avg	0.81	0.75	0.58	13
weighted avg	0.96	0.77	0.74	13

Sentence: what are the fares for flights from charlotte to newark on tuesday and wednesday

True tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP NOUN CCONJ NOUN

Predicted tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP NOUN CCONJ NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: show fares and flights from denver to oakland

True tags: VERB NOUN CCONJ NOUN ADP PROPN ADP PROPN

Predicted tags: VERB NOUN CCONJ NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what is the airfare between denver and pittsburgh
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what does it cost to fly from boston to oakland on united airlines
True tags: PRON AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX AUX VERB ADP VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.75	1.00	0.86	3
4	1.00	1.00	1.00	2
6	1.00	0.50	0.67	2
8	0.50	1.00	0.67	1
12	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.88	0.75	0.70	13
weighted avg	0.90	0.85	0.81	13

Sentence: get saturday fares from washington to montreal
True tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me fares from atlanta to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: continental airlines on saturday from chicago to seattle
True tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: does eastern airlines fly between boston and washington
True tags: AUX PROPN PROPN VERB ADP PROPN CCONJ PROPN
Predicted tags: AUX PROPN PROPN VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8

	precision	recall	f1-score	support
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like some information on a flight from denver to san francisco on united airlines
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: american airlines from denver to milwaukee
True tags: PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i need a flight delta airlines kansas city to salt lake
True tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: list the alaska airlines flights a departing from burbank
True tags: VERB DET PROPN PROPN NOUN DET VERB ADP PROPN
Predicted tags: VERB DET PROPN PROPN NOUN DET VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me all the flights from miami to chicago on american airlines
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i <unk> like united airlines flights from denver to baltimore
True tags: PRON AUX VERB PROPN PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PROPN PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i <unk> like a flight from new york to los angeles on saturday morning on us air
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: show me the southwest airlines flights from san diego to san francisco
True tags: VERB PRON DET PROPN PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET ADJ PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.83	0.91	6
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.86	0.98	0.84	12
weighted avg	1.00	0.92	0.95	12

Sentence: what flights does american airlines have from boston to dallas
True tags: DET NOUN AUX PROPN PROPN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PROPN PROPN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: what flights go from chicago to seattle on continental airlines on saturday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.83	0.83	0.67	12
weighted avg	1.00	0.92	0.92	12

Sentence: list the flights from dallas to san francisco on american airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights go from chicago to seattle on saturday on continental airlines
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.83	0.83	0.67	12
weighted avg	1.00	0.92	0.92	12

Sentence: show me the flight classes for delta airlines
True tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: please list the flights from cincinnati to burbank on american airlines
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all the flights from indianapolis to san diego on us air
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i would like to fly delta airlines from atlanta to pittsburgh
True tags: PRON AUX VERB PART VERB PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights are available wednesday afternoon from denver to san francisco

True tags: DET NOUN AUX ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN AUX ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.86	0.86	0.71	11
weighted avg	1.00	0.91	0.91	11

Sentence: show me all flights to philadelphia in the evening
True tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: flights from chicago to denver on continental on saturday morning
True tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights from san jose to dallas on friday afternoon

True tags: DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: what are the flights and prices from la to charlotte for monday morning
True tags: PRON AUX DET NOUN CCONJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN CCONJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: on friday night i would like a flight from newark to los angeles
True tags: ADP NOUN NOUN PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN PROPN PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.95	0.95	13
weighted avg	0.94	0.92	0.92	13

Sentence: <unk> paul to kansas city friday night
True tags: PROPN PROPN ADP PROPN PROPN NOUN NOUN
Predicted tags: AUX PROPN ADP PROPN PROPN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	1
3	1.00	0.50	0.67	2
8	0.00	1.00	0.00	0
accuracy			0.71	7
macro avg	0.69	0.81	0.60	7
weighted avg	0.86	0.71	0.76	7

Sentence: show me the flights from philadelphia to baltimore in the morning
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights from chicago to denver in the morning
True tags: DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0

	precision	recall	f1-score	support
accuracy			0.89	9
macro avg	0.80	0.90	0.73	9
weighted avg	1.00	0.89	0.93	9

Sentence: now i need a flight from detroit to san diego leaving tuesday evening
True tags: ADV PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB NOUN NOUN
Predicted tags: VERB PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.95	0.86	0.83	13
weighted avg	0.95	0.92	0.89	13

Sentence: how about flights from dallas to atlanta on wednesday morning
True tags: ADV ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: ADJ ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
7	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: show me the evening flights from baltimore to atlanta
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: which flights go from pittsburgh to atlanta in the evening
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: DET NOUN VERB ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: from toronto to atlanta in the afternoon
True tags: ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need to fly from pittsburgh to oakland and depart in the afternoon
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN CCONJ VERB
ADP DET NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN CCONJ VERB
ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i need a flight from los angeles to pittsburgh on monday afternoon
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the evening flights from atlanta to boston
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i need to know what flights leave atlanta on sunday evening and arrive in baltimore
True tags: PRON VERB PART VERB DET NOUN VERB PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN

Predicted tags: PRON VERB PART VERB DET NOUN VERB PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: what flights are there from boston to denver on monday morning
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.82	11
macro avg	0.79	0.71	0.52	11
weighted avg	0.95	0.82	0.79	11

Sentence: give me morning flights from atlanta to baltimore
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8

	precision	recall	f1-score	support
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flights from atlanta to dallas in the afternoon
True tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: morning flights from pittsburgh to atlanta on wednesday
True tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what are the flights dallas to boston on monday morning
True tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: am flights from atlanta to philadelphia

True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: tampa to charlotte sunday morning
True tags: PROPN ADP PROPN NOUN NOUN
Predicted tags: VERB PART PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	1.00	0.00	0.00	1
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
12	0.00	1.00	0.00	0
accuracy			0.60	5
macro avg	0.60	0.70	0.33	5
weighted avg	1.00	0.60	0.67	5

Sentence: show flights saturday evening from <unk> louis to burbank
True tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what pm flights are available from philadelphia to pittsburgh
True tags: DET NOUN NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN VERB ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.75	0.75	0.50	9
weighted avg	1.00	0.78	0.78	9

Sentence: what are the flights from milwaukee to orlando on wednesday night
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.94	0.94	0.93	11
weighted avg	0.94	0.91	0.91	11

Sentence: show me the flights from san francisco to dallas
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show flights from san francisco to denver on a thursday
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN

Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: from las vegas to phoenix
True tags: ADP PROPN PROPN ADP PROPN
Predicted tags: ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: show me all flights from san diego to los angeles
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights from kansas city to minneapolis
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list flights from las vegas to phoenix
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: flights from las vegas to montreal
True tags: NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i am also interested in a flight that <unk> from <unk> louis to las vegas
True tags: PRON AUX ADV VERB ADP DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB VERB VERB ADP DET NOUN ADP AUX ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	0.33	0.50	0.40	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	0.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.79	0.69	0.68	15
weighted avg	0.84	0.80	0.79	15

Sentence: <unk> petersburg to detroit
True tags: PROPN PROPN ADP PROPN
Predicted tags: AUX PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
accuracy			0.75	4
macro avg	0.67	0.89	0.60	4
weighted avg	1.00	0.75	0.85	4

Sentence: show me flights from san francisco to minneapolis
True tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights from salt lake city to las vegas
True tags: DET NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1

	precision	recall	f1-score	support
6	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.80	0.80	0.60	9
weighted avg	1.00	0.89	0.89	9

Sentence: show me all flights from san francisco to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: do you have flights from <unk> petersburg to toronto on monday
True tags: AUX PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: AUX PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what are all the flights on delta in and out of fort worth
True tags: PRON AUX DET DET NOUN ADP PROPN ADP CCONJ ADP ADP PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADP PROPN ADP CCONJ ADP ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show flights from <unk> petersburg to charlotte
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i <unk> like flight information from dallas fort worth to boston on tuesday
True tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me all flights from san francisco to pittsburgh on friday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN

Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP
NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: from las vegas to montreal
True tags: ADP PROPN PROPN ADP PROPN
Predicted tags: ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: sunday flights from new york city to las vegas
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please find a flight from kansas city to newark
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

```
         2      1.00      1.00      1.00       2
         3      1.00      1.00      1.00       1
         4      1.00      1.00      1.00       1
         5      1.00      1.00      1.00       1
        13      1.00      1.00      1.00       1

    accuracy                      1.00       9
   macro avg      1.00      1.00      1.00       9
weighted avg      1.00      1.00      1.00       9
```

Sentence: i want to go from san francisco to denver
True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN
Classification Report:

```
           precision    recall  f1-score   support

         1      1.00      1.00      1.00       3
         2      1.00      1.00      1.00       2
         4      1.00      1.00      1.00       2
         6      1.00      1.00      1.00       1
        12      1.00      1.00      1.00       1

    accuracy                      1.00       9
   macro avg      1.00      1.00      1.00       9
weighted avg      1.00      1.00      1.00       9
```

Sentence: list all flights on continental leaving denver on monday
True tags: VERB DET NOUN ADP PROPN VERB PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN VERB PROPN ADP NOUN
Classification Report:

```
           precision    recall  f1-score   support

         1      1.00      1.00      1.00       2
         2      1.00      1.00      1.00       2
         3      1.00      1.00      1.00       2
         4      1.00      1.00      1.00       2
         5      1.00      1.00      1.00       1

    accuracy                      1.00       9
   macro avg      1.00      1.00      1.00       9
weighted avg      1.00      1.00      1.00       9
```

Sentence: only show continental flights
True tags: ADV VERB PROPN NOUN
Predicted tags: VERB VERB PROPN NOUN
Classification Report:

```
           precision    recall  f1-score   support

         1      1.00      1.00      1.00       1
         3      1.00      1.00      1.00       1
```

	precision	recall	f1-score	support
4	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.75	4
macro avg	0.88	0.75	0.67	4
weighted avg	0.88	0.75	0.67	4

Sentence: find a flight on delta from philadelphia to san francisco
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: all delta flights to <unk> if you can
True tags: DET PROPN NOUN ADP NOUN ADP PRON AUX
Predicted tags: DET PROPN NOUN ADP PROPN PROPN PRON AUX
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	0.50	0.67	2
3	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.75	8
macro avg	0.89	0.83	0.81	8
weighted avg	0.92	0.75	0.77	8

Sentence: show me all the flights from toronto on nationair
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all the united flights from boston to denver
True tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all the flights on united leaving from boston
True tags: VERB PRON DET DET NOUN ADP PROPN VERB ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: when are the american flights from phoenix to milwaukee
True tags: ADV AUX DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN VERB DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.82	0.71	0.55	9
weighted avg	0.92	0.78	0.73	9

Sentence: please list all united flights between pittsburgh and baltimore
True tags: INTJ VERB DET PROPN NOUN ADP PROPN CCONJ PROPN
Predicted tags: INTJ VERB DET PROPN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please list all flights between boston and philadelphia <unk> on sundays
True tags: INTJ VERB DET NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN
Predicted tags: INTJ VERB DET NOUN ADP PROPN CCONJ PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			0.82	11
macro avg	0.88	0.88	0.86	11
weighted avg	0.86	0.82	0.82	11

Sentence: list all flights from baltimore to san francisco on friday
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me flights from philadelphia to denver on a monday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the flights from denver to atlanta on friday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: flights that go from oakland to philadelphia on friday
True tags: NOUN ADP VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN ADP VERB ADP PROPN ADP PROPN ADP NOUN

Classification Report:
```
          precision   recall  f1-score   support

       1     1.00      1.00      1.00        2
       2     1.00      1.00      1.00        4
       3     1.00      1.00      1.00        2
       4     1.00      1.00      1.00        1

accuracy                         1.00        9
macro avg    1.00      1.00      1.00        9
weighted avg 1.00      1.00      1.00        9
```

Sentence: baltimore to philadelphia wednesday
True tags: PROPN ADP PROPN NOUN
Predicted tags: PROPN ADP PROPN NOUN
Classification Report:
```
          precision   recall  f1-score   support

       1     1.00      1.00      1.00        2
       2     1.00      1.00      1.00        1
       3     1.00      1.00      1.00        1

accuracy                         1.00        4
macro avg    1.00      1.00      1.00        4
weighted avg 1.00      1.00      1.00        4
```

Sentence: i <unk> like a flight from montreal to san diego for sunday
True tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:
```
          precision   recall  f1-score   support

       1     1.00      1.00      1.00        3
       2     1.00      1.00      1.00        3
       3     1.00      1.00      1.00        2
       4     1.00      1.00      1.00        1
       5     1.00      1.00      1.00        1
       6     1.00      1.00      1.00        1
       8     1.00      1.00      1.00        1

accuracy                         1.00       12
macro avg    1.00      1.00      1.00       12
weighted avg 1.00      1.00      1.00       12
```

Sentence: what flights are available friday from philadelphia to oakland
True tags: DET NOUN AUX ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.86	0.86	0.71	9
weighted avg	1.00	0.89	0.89	9

Sentence: i would like to see the flights available from pittsburgh to san francisco for monday
True tags: PRON AUX VERB PART VERB DET NOUN ADJ ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADJ ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: show me the flights on sunday from tampa to charlotte
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

```
   accuracy                      1.00       10
  macro avg      1.00     1.00    1.00      10
weighted avg      1.00     1.00    1.00       10
```

Sentence: what are all flights from denver to philadelphia on saturday
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

```
          precision   recall  f1-score   support

      1      1.00     1.00     1.00        2
      2      1.00     1.00     1.00        3
      3      1.00     1.00     1.00        2
      5      1.00     1.00     1.00        1
      6      1.00     1.00     1.00        1
      8      1.00     1.00     1.00        1

   accuracy                    1.00       10
  macro avg      1.00   1.00    1.00       10
weighted avg      1.00   1.00    1.00       10
```

Sentence: what flights are available from denver to philadelphia on wednesday
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN
Classification Report:

```
          precision   recall  f1-score   support

      1      1.00     1.00     1.00        2
      2      1.00     1.00     1.00        3
      3      1.00     1.00     1.00        2
      5      1.00     0.00     0.00        1
      6      0.00     1.00     0.00        0
      7      1.00     1.00     1.00        1
      8      1.00     1.00     1.00        1

   accuracy                    0.90       10
  macro avg      0.86   0.86    0.71       10
weighted avg      1.00   0.90    0.90       10
```

Sentence: i want to go from boston to washington on a saturday
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

```
          precision   recall  f1-score   support

      1      1.00     1.00     1.00        2
      2      1.00     1.00     1.00        3
      3      1.00     1.00     1.00        1
      4      1.00     1.00     1.00        2
```

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show flights from burbank to <unk> louis on monday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please show me flights from dallas to atlanta on monday
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the flights from pittsburgh to los angeles on thursday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: i <unk> like a list of the flights from oakland to dallas fort worth on sunday
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: show me the flights from boston to pittsburgh on wednesday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: list all flights from nashville to cleveland on sunday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me a flight from tampa to charlotte on sunday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights from denver to san francisco
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what are all the flights available between pittsburgh and dallas fort worth
True tags: PRON AUX DET DET NOUN ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights from seattle to salt lake city
True tags: DET NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: what are the flights from memphis to las vegas
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights are there from pittsburgh to los angeles
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN PROPN

Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.78	9
macro avg	0.79	0.71	0.52	9
weighted avg	0.94	0.78	0.74	9

Sentence: i <unk> looking for a flight from pittsburgh to san francisco
True tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from dallas to san francisco
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9

weighted avg   1.00   1.00   1.00   9

Sentence: what are the flights from boston to san francisco
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights do you have leaving boston going to san francisco
True tags: DET NOUN AUX PRON VERB VERB PROPN VERB ADP PROPN PROPN
Predicted tags: PRON NOUN AUX PRON VERB VERB PROPN VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: list all flights please from washington to san francisco
True tags: VERB DET NOUN INTJ ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1

13	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.89	9
macro avg	0.92	0.83	0.78	9
weighted avg	0.94	0.89	0.85	9

Sentence: list flights between oakland and san francisco
True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: interested in a flight from washington to fort worth
True tags: VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.95	0.80	0.77	9
weighted avg	0.92	0.89	0.84	9

Sentence: what flights are <unk> available between boston and dallas fort worth
True tags: DET NOUN AUX ADV ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: PRON NOUN AUX AUX ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1

	precision	recall	f1-score	support
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.83	0.78	0.63	11
weighted avg	0.95	0.82	0.79	11

Sentence: what about flights from boston to san diego
True tags: PRON ADP NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON ADP NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flights from baltimore to san francisco
True tags: NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i live in washington and i would like to make a trip to san francisco can you tell me which airlines connect with those two cities
True tags: PRON VERB ADP PROPN CCONJ PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN AUX PRON VERB PRON DET NOUN VERB ADP DET NUM NOUN
Predicted tags: PRON VERB ADP PROPN CCONJ PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN AUX PRON VERB PRON DET NOUN NOUN ADP PROPN ADJ NOUN
Classification Report:

precision   recall f1-score   support

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	0.75	1.00	0.86	3
4	1.00	0.80	0.89	5
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	4
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			0.88	26
macro avg	0.86	0.86	0.76	26
weighted avg	0.94	0.88	0.88	26

Sentence: show me the flights from detroit to las vegas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights go from denver to atlanta
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.86	0.86	7

Sentence: show me the flights from montreal to philly
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flight from denver to philadelphia
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: give me the flights from baltimore to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like to fly from boston to baltimore
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN

Predicted tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: tell me the flights that leave philadelphia and go to dallas
True tags: VERB PRON DET NOUN ADP VERB PROPN CCONJ VERB ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP VERB PROPN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: flight information from oakland to denver
True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: the flight will <unk> from boston

True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: DET NOUN ADJ AUX ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	0.00	0.00	0.00	1
accuracy			0.67	6
macro avg	0.71	0.71	0.57	6
weighted avg	0.83	0.67	0.67	6

Sentence: what are the flights from pittsburgh to oakland
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights are there from baltimore to newark
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8

weighted avg   0.94   0.75   0.71   8

Sentence: flights from columbus to milwaukee
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: i <unk> like information on boston to washington
True tags: PRON AUX VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: list flights from houston to phoenix
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: information of a flight from atlanta to pittsburgh
True tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN

Predicted tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i need to go to pittsburgh and denver
True tags: PRON VERB PART VERB ADP PROPN CCONJ PROPN
Predicted tags: PRON VERB PART VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights from philadelphia to atlanta
True tags: DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.83	6
macro avg	0.80	0.80	0.60	6
weighted avg	1.00	0.83	0.83	6

Sentence: flight from milwaukee to denver
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: tell me the flights from baltimore to dallas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i <unk> like to book a flight from atlanta to denver
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: now get me from pittsburgh to denver
True tags: ADV VERB PRON ADP PROPN ADP PROPN
Predicted tags: VERB VERB PRON ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.90	0.80	0.73	7
weighted avg	0.93	0.86	0.81	7

Sentence: what flights are there from boston to dallas
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: show me flights from pittsburgh to philadelphia
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: show flights from philadelphia to boston
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i <unk> like to see flights from pittsburgh to philadelphia
True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: give me flights from pittsburgh to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need to go from philadelphia to dallas
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show flights from pittsburgh to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what are the flights from chicago to indianapolis
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: get flights from toronto to milwaukee
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what are the different classes that an airline offers
True tags: PRON AUX DET ADJ NOUN ADP DET NOUN VERB
Predicted tags: PRON AUX DET ADJ NOUN ADP DET NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.00	1.00	0.00	0
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.88	0.88	0.75	9
weighted avg	1.00	0.89	0.89	9

Sentence: show flights between boston and denver
True tags: VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: show flights from dallas to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: show me flights from baltimore to dallas
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me all the flights from memphis to charlotte
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i would like to see the flights from baltimore to philadelphia please
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN INTJ
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN INTJ
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
13	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights are there from indianapolis to orlando
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.75	8
macro avg	0.79	0.71	0.52	8
weighted avg	0.94	0.75	0.71	8

Sentence: no i want to go from denver to oakland
True tags: DET PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: DET PRON VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me flights from milwaukee to orlando

True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me a list of flights between denver and oakland
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all the flights from charlotte to cleveland
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me flights from denver to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: tell me about flights from indianapolis to houston
True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: oakland to philadelphia
True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: what are your flights from denver to baltimore
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: list all flights from baltimore to philadelphia
True tags: VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what flights are available from boston to dallas
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.86	0.86	0.71	8
weighted avg	1.00	0.88	0.88	8

Sentence: i would like to see all flights from denver to philadelphia
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: atlanta to pittsburgh
True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: give me a flight from baltimore to newark that arrives as early as possible
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP ADV ADP ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP ADJ ADP NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	0.00	0.00	1
9	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.78	0.78	0.67	14
weighted avg	0.93	0.86	0.86	14

Sentence: what flights are there between atlanta and denver
True tags: DET NOUN VERB PRON ADP PROPN CCONJ PROPN
Predicted tags: PRON NOUN AUX PRON ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.75	8
macro avg	0.81	0.75	0.58	8
weighted avg	0.94	0.75	0.71	8

Sentence: i need a flight from phoenix to atlanta
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i want to fly from atlanta to philadelphia
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
12	1.00	1.00	1.00	1
accuracy			1.00	8

| | macro avg | 1.00 | 1.00 | 1.00 | 8 |
| | weighted avg | 1.00 | 1.00 | 1.00 | 8 |

Sentence: also give me a list of flights between oakland and boston
True tags: ADV VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Average Loss: 0.2058
Average Accuracy: 93.77 %
Sentence: what are the coach flights between dallas and baltimore leaving august tenth and returning august <unk>
True tags: PRON AUX DET NOUN NOUN ADP PROPN CCONJ PROPN VERB NOUN ADJ CCONJ VERB NOUN NUM
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN CCONJ PROPN CCONJ NOUN NOUN CCONJ PROPN NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	0.80	1.00	0.89	4
4	1.00	0.00	0.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
10	0.67	1.00	0.80	2
accuracy			0.75	16
macro avg	0.81	0.70	0.65	16
weighted avg	0.80	0.75	0.67	16

Sentence: i want a flight from nashville to seattle that arrives no later than 3 pm

True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB DET ADJ ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB VERB ADJ ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	0.67	1.00	0.80	2
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.92	0.81	0.78	15
weighted avg	0.91	0.87	0.84	15

Sentence: i need a flight leaving kansas city to chicago leaving next wednesday and returning the following day
True tags: PRON VERB DET NOUN VERB PROPN PROPN ADP PROPN VERB ADJ NOUN CCONJ VERB DET VERB NOUN
Predicted tags: PRON VERB DET NOUN VERB PROPN PROPN ADP PROPN VERB NOUN NOUN VERB PROPN DET PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	3
2	1.00	1.00	1.00	1
3	0.67	0.67	0.67	3
4	0.75	0.60	0.67	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.71	17
macro avg	0.86	0.66	0.62	17
weighted avg	0.78	0.71	0.67	17

Sentence: explain meal codes <unk> <unk>
True tags: VERB NOUN NOUN PROPN PROPN
Predicted tags: NOUN VERB VERB VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	2.0
3	0.00	0.00	0.00	2.0

	precision	recall	f1-score	support
4	0.00	0.00	0.00	1.0
accuracy			0.00	5.0
macro avg	0.33	0.00	0.00	5.0
weighted avg	0.40	0.00	0.00	5.0

Sentence: show me all flights from atlanta to san francisco which leave the day after tomorrow after 5 <unk> pm
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB DET NOUN ADP NOUN ADP NUM ADV NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN DET VERB DET ADJ ADP NOUN ADP NUM ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	0.75	0.86	4
4	1.00	1.00	1.00	2
5	0.67	1.00	0.80	2
6	1.00	0.50	0.67	2
7	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.84	19
macro avg	0.85	0.81	0.70	19
weighted avg	0.96	0.84	0.86	19

Sentence: i need a flight from toronto to montreal reaching montreal early on friday
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN VERB PROPN ADJ ADP NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN PROPN NUM ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.84	0.81	0.69	13
weighted avg	0.94	0.85	0.84	13

Sentence: are there any flights from new york to montreal canada leaving on thursday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me ground transportation in philadelphia on monday morning
True tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: find a flight from toronto to san diego with a layover in dc on delta airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2

```
      accuracy                    1.00        16
     macro avg      1.00    1.00    1.00       16
  weighted avg       1.00    1.00    1.00      16
```

Sentence: what is restriction ap80
True tags: PRON AUX NOUN PROPN
Predicted tags: PRON AUX NOUN PROPN
Classification Report:

```
           precision    recall  f1-score   support

       1      1.00      1.00      1.00        1
       3      1.00      1.00      1.00        1
       6      1.00      1.00      1.00        1
       8      1.00      1.00      1.00        1

    accuracy                      1.00        4
   macro avg      1.00    1.00    1.00        4
weighted avg       1.00    1.00    1.00        4
```

Sentence: list the arizona airport
True tags: VERB DET PROPN PROPN
Predicted tags: VERB DET NOUN NOUN
Classification Report:

```
           precision    recall  f1-score   support

       1      1.00      0.00      0.00        2
       3      0.00      1.00      0.00        0
       4      1.00      1.00      1.00        1
       5      1.00      1.00      1.00        1

    accuracy                      0.50        4
   macro avg      0.75    0.75    0.50        4
weighted avg       1.00    0.50    0.50        4
```

Sentence: what are the nonstop flights on america west or southwest air from
kansas city to burbank on saturday may twenty two
True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN CCONJ PROPN
PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM NUM
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN VERB PROPN
PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ VERB
Classification Report:

```
           precision    recall  f1-score   support

       1      1.00      1.00      1.00        7
       2      1.00      1.00      1.00        4
       3      1.00      1.00      1.00        4
       4      0.00      1.00      0.00        0
       5      1.00      1.00      1.00        1
       6      1.00      1.00      1.00        1
       7      0.00      1.00      0.00        0
```

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1
accuracy			0.86	21
macro avg	0.80	0.80	0.60	21
weighted avg	1.00	0.86	0.86	21

Sentence: what times does the late afternoon flight leave from washington for denver
True tags: DET NOUN AUX DET ADJ NOUN NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN AUX DET ADJ NOUN NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.88	0.94	0.83	12
weighted avg	1.00	0.92	0.94	12

Sentence: what does the meal code s stand for
True tags: PRON AUX DET NOUN NOUN PROPN VERB ADP
Predicted tags: PRON AUX DET NOUN NOUN PROPN VERB ADP
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: is there ground transportation from the memphis airport into town when if i arrive at <unk> in the morning

True tags: VERB PRON NOUN NOUN ADP DET PROPN PROPN ADP PROPN ADV ADP PRON VERB ADP NUM ADP DET NOUN
Predicted tags: VERB PRON NOUN NOUN ADP DET PROPN PROPN ADP PROPN PROPN PROPN PRON VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	3
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.84	19
macro avg	0.94	0.72	0.69	19
weighted avg	0.92	0.84	0.81	19

Sentence: what flights between dfw and oakland arrive in oakland between <unk> am and <unk> pm
True tags: DET NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN ADP NUM NOUN CCONJ NUM NOUN
Predicted tags: PRON NOUN ADP PROPN CCONJ PROPN VERB ADP PROPN ADP PROPN NOUN CCONJ CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	2
10	0.67	1.00	0.80	2
accuracy			0.80	15
macro avg	0.80	0.75	0.58	15
weighted avg	0.91	0.80	0.74	15

Sentence: what are the flights on mondays that travel from charlotte north carolina to phoenix arizona
True tags: PRON AUX DET NOUN ADP PROPN ADP VERB ADP PROPN ADV PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN VERB ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.71	1.00	0.83	5
2	1.00	0.75	0.86	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.96	0.84	0.84	15
weighted avg	0.90	0.87	0.84	15

Sentence: what kind of ground transportation is there in washington dc
True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN PROPN
Predicted tags: PRON NOUN ADP NOUN NOUN AUX PRON ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.80	10
macro avg	0.79	0.71	0.52	10
weighted avg	0.95	0.80	0.77	10

Sentence: in economy class from dallas to baltimore arriving july seventh i <unk> like to know what <unk> the cheapest ticket possible
True tags: ADP NOUN NOUN ADP PROPN ADP PROPN VERB NOUN ADJ PRON AUX VERB PART VERB PRON AUX DET ADJ NOUN ADJ
Predicted tags: ADP NOUN NOUN ADP PROPN ADP PROPN VERB NOUN ADJ PRON AUX ADP ADP VERB DET AUX DET ADJ ADJ ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.60	1.00	0.75	3
3	1.00	0.75	0.86	4
4	1.00	0.67	0.80	3
5	0.50	1.00	0.67	1
6	1.00	0.50	0.67	2
7	0.75	1.00	0.86	3
8	1.00	1.00	1.00	2
12	1.00	0.00	0.00	1

accuracy			0.81	21
macro avg	0.87	0.77	0.73	21
weighted avg	0.88	0.81	0.79	21

Sentence: show flights from baltimore to san francisco between 6 pm and 8 pm on friday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN CCONJ NUM NOUN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN CCONJ CCONJ NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
10	0.50	1.00	0.67	1
accuracy			0.93	15
macro avg	0.92	0.92	0.89	15
weighted avg	0.97	0.93	0.93	15

Sentence: what meals are available on dl <unk> which <unk> arrives in san francisco at <unk> am
True tags: DET NOUN AUX ADJ ADP PROPN NUM DET PROPN VERB ADP PROPN PROPN ADP NUM NOUN
Predicted tags: PRON NOUN AUX ADJ ADP NOUN PROPN ADJ ADJ ADJ ADP PROPN PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	0.50	0.50	4
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	2
6	0.00	1.00	0.00	0
7	0.25	1.00	0.40	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
accuracy			0.56	16
macro avg	0.71	0.61	0.41	16
weighted avg	0.79	0.56	0.50	16

Sentence: i want to fly from kansas city to chicago next wednesday arriving in the evening and returning the next day

True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN VERB ADP DET NOUN CCONJ VERB DET ADJ NOUN
Predicted tags: PRON VERB VERB VERB ADP PROPN PROPN ADP PROPN NOUN NOUN VERB ADP DET NOUN CCONJ PROPN DET ADJ ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	0.67	0.67	0.67	3
4	0.75	0.75	0.75	4
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.50	0.50	0.50	2
10	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.80	20
macro avg	0.85	0.77	0.75	20
weighted avg	0.81	0.80	0.78	20

Sentence: please book for me a flight on twa from washington dc to san francisco earliest possible time
True tags: INTJ VERB ADP PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN ADV ADJ NOUN
Predicted tags: VERB VERB ADP DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN CCONJ ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	0.50	1.00	0.67	1
6	1.00	0.00	0.00	1
7	1.00	1.00	1.00	1
10	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.82	17
macro avg	0.80	0.70	0.53	17
weighted avg	0.94	0.82	0.78	17

Sentence: is there a red eye flight from san jose to nashville on wednesday the nineteenth of may
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ ADP NOUN

Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ ADP NUM

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	0.75	0.75	0.75	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.50	0.67	2
9	0.00	1.00	0.00	0
accuracy			0.88	17
macro avg	0.84	0.91	0.80	17
weighted avg	0.94	0.88	0.90	17

Sentence: i <unk> like to arrange for two friends to fly into los angeles next saturday evening one of the people is coming from kansas city and the other is coming from las vegas

True tags: PRON AUX VERB PART VERB ADP NUM NOUN PART VERB ADP PROPN PROPN ADJ NOUN NOUN NUM ADP DET NOUN AUX VERB ADP PROPN PROPN CCONJ DET ADJ AUX VERB ADP PROPN PROPN

Predicted tags: PRON AUX VERB ADP VERB ADP VERB VERB ADP VERB ADP PROPN PROPN NOUN NOUN NOUN ADJ ADP DET NOUN VERB ADJ ADP PROPN PROPN CCONJ DET ADJ AUX PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	0.86	1.00	0.92	6
2	0.71	1.00	0.83	5
3	0.75	0.75	0.75	4
4	0.50	0.60	0.55	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.33	0.50	0.40	2
8	1.00	0.67	0.80	3
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
12	1.00	0.00	0.00	2
accuracy			0.73	33
macro avg	0.83	0.68	0.66	33
weighted avg	0.78	0.73	0.69	33

Sentence: what is restriction ap <unk>
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.90	0.80	0.73	5
weighted avg	0.90	0.80	0.73	5

Sentence: what is restriction ap 80
True tags: PRON AUX NOUN PROPN NUM
Predicted tags: PRON AUX NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.80	5
macro avg	0.83	0.83	0.67	5
weighted avg	1.00	0.80	0.80	5

Sentence: show me all flights from philadelphia to san francisco with one stop in dallas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: show me the flights from miami to san diego with one stop in denver
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: do you have a flight from atlanta to charlotte north carolina next monday
True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADV PROPN ADJ NOUN
Predicted tags: PRON PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.92	0.78	0.72	13
weighted avg	0.90	0.85	0.79	13

Sentence: i would like to book an early morning flight from tampa florida to charlotte north carolina on april sixth
True tags: PRON AUX VERB PART VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADV PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB ADP VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN PROPN ADP NOUN ADJ
Classification Report:

precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.89	19
macro avg	0.96	0.80	0.77	19
weighted avg	0.92	0.89	0.85	19

Sentence: now i <unk> like flights from philadelphia to pittsburgh leaving between 430 and 530 pm
True tags: ADV PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB ADP NUM CCONJ NUM NOUN
Predicted tags: VERB PRON AUX VERB NOUN ADP PROPN ADP PROPN VERB ADP PROPN CCONJ CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.80	15
macro avg	0.87	0.78	0.70	15
weighted avg	0.88	0.80	0.72	15

Sentence: from sfo to denver
True tags: ADP PROPN ADP PROPN
Predicted tags: ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4

weighted avg   1.00   1.00   1.00   4

Sentence: what is the lowest fare from bwi to salt lake city
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: flight numbers from minneapolis to long beach on june twenty six
True tags: NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN NUM NUM
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
7	0.00	1.00	0.00	0
9	1.00	0.00	0.00	2
accuracy			0.82	11
macro avg	0.80	0.80	0.60	11
weighted avg	1.00	0.82	0.82	11

Sentence: which is the flight number for the us air flight from philadelphia to boston is it <unk> or is it <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN AUX PRON NUM CCONJ AUX PRON NUM
Predicted tags: DET AUX DET NOUN NOUN ADP DET PROPN PROPN NOUN ADP PROPN ADP PROPN VERB PRON AUX AUX AUX AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	0.00	1.00	0.00	0
5	0.67	1.00	0.80	2
6	1.00	0.33	0.50	3
8	0.33	0.67	0.44	3
9	1.00	0.00	0.00	2
10	1.00	0.00	0.00	1
accuracy			0.71	21
macro avg	0.78	0.67	0.53	21
weighted avg	0.87	0.71	0.69	21

Sentence: how much would car rental cost in atlanta
True tags: ADV ADV AUX NOUN ADJ VERB ADP PROPN
Predicted tags: VERB AUX AUX NOUN NOUN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	0.00	0.00	0.00	1
7	1.00	0.00	0.00	1
8	0.50	1.00	0.67	1
11	1.00	0.00	0.00	2
accuracy			0.50	8
macro avg	0.64	0.57	0.43	8
weighted avg	0.69	0.50	0.37	8

Sentence: please list the prices for a rental car in pittsburgh
True tags: INTJ VERB DET NOUN ADP DET ADJ NOUN ADP PROPN
Predicted tags: VERB VERB DET NOUN ADP DET NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.88	0.71	0.64	10
weighted avg	0.88	0.80	0.73	10

Sentence: what does the restriction <unk> mean
True tags: PRON AUX DET NOUN PROPN VERB
Predicted tags: PRON AUX DET NOUN PROPN VERB

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: list nonstop flights from baltimore washington to oakland that arrive between <unk> and <unk> pm
True tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP NUM CCONJ NUM NOUN
Predicted tags: VERB NOUN NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP PROPN CCONJ CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
9	1.00	0.00	0.00	2
10	0.50	1.00	0.67	1
accuracy			0.87	15
macro avg	0.88	0.83	0.75	15
weighted avg	0.92	0.87	0.82	15

Sentence: list all of the daily flights arriving in denver from 8 to 9 pm
True tags: VERB DET ADP DET ADJ NOUN VERB ADP PROPN ADP NUM ADP NUM NOUN
Predicted tags: VERB DET ADP DET ADJ NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2

```
      accuracy                    0.93      14
     macro avg      0.93    0.93    0.90       14
  weighted avg      0.96    0.93    0.93       14


Sentence: get flights from milwaukee to <unk>
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:
          precision   recall  f1-score   support

       1     1.00     1.00     1.00         2
       2     1.00     1.00     1.00         2
       3     1.00     1.00     1.00         1
       4     1.00     1.00     1.00         1

   accuracy                     1.00        6
  macro avg      1.00    1.00     1.00       6
 weighted avg      1.00     1.00    1.00        6


Sentence: what is the earliest flight from boston to bwi that serves a snack
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET
NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB
DET ADJ
Classification Report:
           precision   recall  f1-score   support

       1     1.00     1.00     1.00         2
       2     1.00     1.00     1.00         3
       3     1.00     0.50     0.67         2
       4     1.00     1.00     1.00         1
       5     1.00     1.00     1.00         2
       6     1.00     1.00     1.00         1
       7     0.50     1.00     0.67         1
       8     1.00     1.00     1.00         1

   accuracy                     0.92       13
  macro avg      0.94    0.94     0.92       13
 weighted avg      0.96    0.92     0.92       13


Sentence: is bwi washington
True tags: VERB PROPN PROPN
Predicted tags: VERB PROPN PROPN
Classification Report:
          precision   recall  f1-score   support

       1     1.00     1.00     1.00         2
       4     1.00     1.00     1.00         1

   accuracy                     1.00        3
```

	precision	recall	f1-score	support
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: what are the cities that american airlines serves
True tags: PRON AUX DET NOUN ADP PROPN PROPN VERB
Predicted tags: PRON AUX DET NOUN PROPN PROPN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.95	0.86	0.83	8
weighted avg	0.92	0.88	0.82	8

Sentence: which cities are serviced by both american and delta airlines
True tags: DET NOUN AUX VERB ADP DET PROPN CCONJ PROPN PROPN
Predicted tags: DET NOUN VERB VERB ADP NOUN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	0.50	1.00	0.67	1
5	1.00	0.50	0.67	2
8	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.80	10
macro avg	0.86	0.79	0.71	10
weighted avg	0.90	0.80	0.77	10

Sentence: show me all the us air flights to pittsburgh between 12 and 4 in the afternoon
True tags: VERB PRON DET DET PROPN PROPN NOUN ADP PROPN ADP NUM CCONJ NUM ADP DET NOUN
Predicted tags: VERB PRON DET DET NOUN PROPN NOUN ADP PROPN ADP NUM CCONJ CCONJ ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
10	0.50	1.00	0.67	1
accuracy			0.88	16
macro avg	0.90	0.90	0.87	16
weighted avg	0.93	0.88	0.88	16

Sentence: what is the cost of limousine service in philadelphia
True tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: how much does the limousine service cost within pittsburgh
True tags: ADV ADV AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: VERB AUX AUX DET NOUN NOUN PROPN ADJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	0.00	0.00	1
3	1.00	1.00	1.00	2
4	0.00	0.00	0.00	1
5	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
11	1.00	0.00	0.00	2
accuracy			0.56	9
macro avg	0.62	0.62	0.42	9
weighted avg	0.78	0.56	0.48	9

Sentence: on november twenty third of this <unk> 1991 i <unk> like to fly from atlanta to denver and i <unk> like to fly on delta

True tags: ADP NOUN NUM PROPN ADP DET NOUN NUM PRON AUX VERB PART VERB ADP PROPN ADP PROPN CCONJ PRON AUX VERB PART VERB ADP PROPN

Predicted tags: ADP NOUN ADJ ADJ ADP DET ADJ VERB PRON AUX VERB VERB VERB ADP PROPN ADP PROPN CCONJ PRON AUX ADP ADP VERB ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	0.71	1.00	0.83	5
3	1.00	0.50	0.67	2
4	0.60	0.75	0.67	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	2
9	1.00	0.00	0.00	2
10	1.00	1.00	1.00	1
12	1.00	0.00	0.00	2
accuracy			0.72	25
macro avg	0.85	0.73	0.64	25
weighted avg	0.88	0.72	0.70	25

Sentence: can you tell me the flights on october fifteenth 1991 from boston to oakland

True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADJ NUM ADP PROPN ADP PROPN

Predicted tags: PRON PRON VERB PRON DET NOUN ADP PROPN VERB VERB ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	0.33	1.00	0.50	1
5	1.00	1.00	1.00	1
6	0.67	1.00	0.80	2
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.79	14
macro avg	0.89	0.67	0.59	14
weighted avg	0.90	0.79	0.72	14

Sentence: show me all united flights from denver to san francisco for september first 1991

True tags: VERB PRON DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ NUM

Predicted tags: VERB PRON DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADJ ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.94	0.88	0.83	14
weighted avg	0.96	0.93	0.90	14

Sentence: information on american airline flights from washington to philadelphia early morning times of flight

True tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NOUN

Predicted tags: NOUN ADP PROPN PROPN NOUN ADP PROPN ADP PROPN NUM NOUN NOUN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
7	1.00	0.00	0.00	1
9	0.00	1.00	0.00	0
accuracy			0.93	14
macro avg	0.80	0.80	0.60	14
weighted avg	1.00	0.93	0.93	14

Sentence: please give me the flight times i would like to fly from boston to baltimore in the morning before 8

True tags: INTJ VERB PRON DET NOUN NOUN PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NUM

Predicted tags: VERB VERB PRON DET NOUN NOUN PRON AUX ADP ADP VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NUM

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	0.67	0.67	0.67	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.85	20
macro avg	0.93	0.77	0.75	20
weighted avg	0.88	0.85	0.81	20

Sentence: please list the flight times for boston to pittsburgh
True tags: INTJ VERB DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.92	0.83	0.78	9
weighted avg	0.94	0.89	0.85	9

Sentence: show me all flights and fares from dallas to san francisco
True tags: VERB PRON DET NOUN CCONJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: please list me the flights and their cost of all airlines flying from denver to baltimore
True tags: INTJ VERB PRON DET NOUN CCONJ DET NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: VERB VERB PRON DET NOUN VERB ADJ PROPN ADP DET NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	0.50	1.00	0.67	2
5	1.00	0.67	0.80	3
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.75	16
macro avg	0.80	0.70	0.56	16
weighted avg	0.90	0.75	0.73	16

Sentence: give me the flights and fares on december twenty seventh from indianapolis to orlando
True tags: VERB PRON DET NOUN CCONJ NOUN ADP NOUN NUM ADJ ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN VERB NOUN ADP NOUN NUM ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.94	0.89	0.85	14
weighted avg	0.96	0.93	0.90	14

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: is there ground transportation from lga into new york city
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is <unk>
True tags: PRON AUX PROPN
Predicted tags: PRON AUX AUX
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.67	3
macro avg	0.83	0.67	0.56	3
weighted avg	0.83	0.67	0.56	3

Sentence: how far is toronto international from downtown
True tags: ADV ADV AUX PROPN PROPN ADP NOUN
Predicted tags: VERB AUX AUX PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
11	1.00	0.00	0.00	2
accuracy			0.71	7
macro avg	0.75	0.83	0.61	7
weighted avg	0.93	0.71	0.67	7

Sentence: how far is los angeles international from downtown
True tags: ADV ADV AUX PROPN PROPN PROPN ADP NOUN
Predicted tags: VERB AUX AUX PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
8	0.50	1.00	0.67	1
11	1.00	0.00	0.00	2
accuracy			0.75	8
macro avg	0.75	0.83	0.61	8
weighted avg	0.94	0.75	0.71	8

Sentence: how long does a flight from baltimore to san francisco take
True tags: ADV ADV AUX DET NOUN ADP PROPN ADP PROPN PROPN VERB
Predicted tags: VERB NOUN VERB DET NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	0.00	0.00	0.00	1
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.64	11
macro avg	0.75	0.57	0.50	11
weighted avg	0.80	0.64	0.57	11

Sentence: what airport in new york is closest to downtown
True tags: DET NOUN ADP PROPN PROPN AUX ADJ ADP NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN VERB VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.67	9
macro avg	0.75	0.62	0.38	9
weighted avg	1.00	0.67	0.67	9

Sentence: houston airports
True tags: PROPN NOUN
Predicted tags: ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
2	0.00	1.00	0.00	0
3	1.00	1.00	1.00	1
accuracy			0.50	2
macro avg	0.67	0.67	0.33	2
weighted avg	1.00	0.50	0.50	2

Sentence: give me a list of airports in baltimore
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: where does delta fly to that american does not
True tags: ADV AUX PROPN VERB PART ADP PROPN AUX ADV
Predicted tags: VERB VERB PROPN VERB ADP PROPN PROPN VERB VERB
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.00	0.00	0.00	1
4	0.20	1.00	0.33	1
8	1.00	0.00	0.00	2
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.33	9
macro avg	0.64	0.33	0.19	9
weighted avg	0.73	0.33	0.21	9

Sentence: which airline has the smallest plane leaving pittsburgh and arriving in baltimore on july fourth
True tags: DET NOUN VERB DET ADJ NOUN VERB PROPN CCONJ VERB ADP PROPN ADP NOUN ADJ
Predicted tags: DET NOUN VERB DET ADJ NOUN VERB PROPN VERB VERB ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
10	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.96	0.86	0.84	15
weighted avg	0.95	0.93	0.90	15

Sentence: which flight from pittsburgh to baltimore carries the smallest number of passengers
True tags: DET NOUN ADP PROPN ADP PROPN VERB DET ADJ NOUN ADP NOUN
Predicted tags: DET NOUN ADP PROPN ADP PROPN NOUN DET ADJ ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	0.67	0.67	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
7	0.50	1.00	0.67	1
accuracy			0.83	12
macro avg	0.86	0.78	0.72	12

weighted avg   0.88   0.83   0.81   12

Sentence: what is the first flight from boston to stapleton airport for tomorrow
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: list all the flights that arrive at general mitchell international
True tags: VERB DET DET NOUN ADP VERB ADP PROPN PROPN PROPN
Predicted tags: VERB DET DET NOUN PROPN VERB ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.50	0.67	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
accuracy			0.90	10
macro avg	0.95	0.90	0.90	10
weighted avg	0.93	0.90	0.89	10

Sentence: how much does it cost to go from downtown to logan airport
True tags: ADV ADV AUX PRON VERB PART VERB ADP NOUN ADP PROPN PROPN
Predicted tags: VERB AUX AUX AUX VERB ADP VERB ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	0.67	1.00	0.80	2
6	1.00	0.00	0.00	1
8	0.33	1.00	0.50	1
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.67	12
macro avg	0.83	0.62	0.51	12
weighted avg	0.83	0.67	0.56	12

Sentence: show me flights from all airports to love field
True tags: VERB PRON NOUN ADP DET NOUN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN ADP DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: flights from cincinnati to <unk> departing after 718 am american
True tags: NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN VERB ADP NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.93	0.80	0.76	10
weighted avg	0.93	0.90	0.86	10

Sentence: show me all flights to dallas that are less than 1500 dollars round trip
True tags: VERB PRON DET NOUN ADP PROPN ADP AUX ADJ ADP NUM NOUN NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN VERB VERB ADP NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	0.67	0.80	3
3	0.80	1.00	0.89	4
4	0.33	1.00	0.50	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.71	14
macro avg	0.85	0.63	0.54	14
weighted avg	0.86	0.71	0.65	14

Sentence: round trip fares from pittsburgh to philadelphia under 1000 dollars
True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	0.80	1.00	0.89	4
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.87	0.67	0.62	10
weighted avg	0.85	0.80	0.76	10

Sentence: round trip fares from baltimore to philadelphia under 1000 dollars
True tags: NOUN NOUN NOUN ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	0.80	1.00	0.89	4
9	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.87	0.67	0.62	10
weighted avg	0.85	0.80	0.76	10

Sentence: all flights from baltimore to philadelphia less than 1000 dollars
True tags: DET NOUN ADP PROPN ADP PROPN ADJ ADP NUM NOUN

Predicted tags: DET NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: how many seats in a 100
True tags: ADV ADJ NOUN ADP DET PROPN
Predicted tags: VERB NOUN NOUN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
2	1.00	1.00	1.00	1
3	0.33	1.00	0.50	1
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.50	6
macro avg	0.76	0.57	0.36	6
weighted avg	0.89	0.50	0.42	6

Sentence: how many passengers can a boeing 737 hold
True tags: ADV ADJ NOUN AUX DET PROPN NUM VERB
Predicted tags: VERB NOUN NOUN AUX DET NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.00	0.00	0.00	1
3	0.33	1.00	0.50	1
4	0.00	0.00	0.00	1
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.38	8

	precision	recall	f1-score	support
macro avg	0.67	0.38	0.31	8
weighted avg	0.67	0.38	0.31	8

Sentence: what is the seating capacity of a <unk>
True tags: PRON AUX DET NOUN NOUN ADP DET PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP DET ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.86	0.86	0.71	8
weighted avg	1.00	0.88	0.88	8

Sentence: what is the seating capacity for delta be1
True tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the flights from indianapolis to orlando with round trip fares less than <unk>
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN ADJ ADP NUM
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.96	0.88	0.85	15
weighted avg	0.96	0.93	0.91	15

Sentence: show me what flights are available from baltimore to dallas with economy fares
True tags: VERB PRON DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB PRON DET NOUN VERB ADJ ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.94	0.88	0.83	13
weighted avg	0.96	0.92	0.90	13

Sentence: baltimore to kansas city economy
True tags: PROPN ADP PROPN PROPN NOUN
Predicted tags: PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: economy fares new york to miami round trip
True tags: NOUN NOUN PROPN PROPN ADP PROPN NOUN NOUN
Predicted tags: NOUN NOUN PROPN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: find me all the round trip flights from burbank to milwaukee stopping in <unk> louis
True tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN VERB ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN NOUN NOUN ADP PROPN ADP PROPN VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: i <unk> like to find a flight from charlotte to las vegas and make a stop in <unk> louis
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN CCONJ VERB DET NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.95	19

macro avg	0.97	0.89	0.87	19
weighted avg	0.96	0.95	0.92	19

Sentence: can you tell me which flights go from memphis to tacoma and make a stop in los angeles

True tags: AUX PRON VERB PRON DET NOUN VERB ADP PROPN ADP PROPN CCONJ VERB DET NOUN ADP PROPN PROPN

Predicted tags: PRON PRON VERB PRON AUX NOUN VERB ADP PROPN ADP PROPN VERB VERB DET NOUN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.75	1.00	0.86	3
5	1.00	0.50	0.67	2
6	0.67	1.00	0.80	2
8	0.00	0.00	0.00	1
10	1.00	0.00	0.00	1
accuracy			0.83	18
macro avg	0.80	0.69	0.67	18
weighted avg	0.87	0.83	0.81	18

Sentence: is there a flight between oakland and boston with a stopover in dallas fort worth on twa

True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN

Predicted tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP DET NOUN ADP PROPN PROPN PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: show me all direct flights from san francisco to boston departing before noon

True tags: VERB PRON DET ADJ NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN

Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.95	0.86	0.83	13
weighted avg	0.95	0.92	0.89	13

Sentence: do you have an early morning direct flight from philadelphia to pittsburgh
True tags: AUX PRON VERB DET ADJ NOUN ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON PRON VERB DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
7	1.00	0.50	0.67	2
8	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.90	0.81	0.77	12
weighted avg	0.90	0.83	0.80	12

Sentence: which united flights from boston to san francisco make connections
True tags: DET PROPN NOUN ADP PROPN ADP PROPN PROPN VERB NOUN
Predicted tags: DET PROPN NOUN ADP PROPN ADP PROPN PROPN VERB ADP
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.67	1.00	0.80	2
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.90	10
macro avg	0.93	0.90	0.89	10
weighted avg	0.93	0.90	0.89	10

Sentence: nonstop or connecting flights from seattle to boston
True tags: NOUN CCONJ VERB NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADJ VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.83	0.83	0.67	8
weighted avg	1.00	0.88	0.88	8

Sentence: please give me direct morning flights from pittsburgh to atlanta
True tags: INTJ VERB PRON ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB PRON VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.33	1.00	0.50	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.90	0.71	0.64	10
weighted avg	0.93	0.80	0.75	10

Sentence: list the flights that leave from philadelphia to atlanta early thursday morning before 8 am
True tags: VERB DET NOUN ADP VERB ADP PROPN ADP PROPN ADJ NOUN NOUN ADP NUM NOUN
Predicted tags: VERB DET NOUN PROPN VERB ADP PROPN ADP PROPN NUM NOUN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.75	0.86	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	0.50	1.00	0.67	1
accuracy			0.87	15
macro avg	0.88	0.82	0.76	15
weighted avg	0.92	0.87	0.85	15

Sentence: give me the flights from boston to san francisco leaving early today
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN VERB ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the continental flights leaving chicago early saturday morning
True tags: VERB PRON DET PROPN NOUN VERB PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET NOUN NOUN VERB PROPN VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
3	0.75	1.00	0.86	3
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.90	0.75	0.72	10
weighted avg	0.86	0.80	0.75	10

Sentence: which flights are leaving from kansas city to atlanta early monday morning

True tags: DET NOUN AUX VERB ADP PROPN PROPN ADP PROPN ADJ NOUN NOUN

Predicted tags: DET NOUN VERB VERB ADP PROPN PROPN ADP PROPN NUM NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
9	0.00	1.00	0.00	0
accuracy			0.83	12
macro avg	0.81	0.75	0.58	12
weighted avg	0.96	0.83	0.81	12

Sentence: i would like to find flights from columbus to minneapolis on monday june fourteenth early in the morning or in the evening sunday june thirteenth thank you

True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADJ ADP DET NOUN CCONJ ADP DET NOUN NOUN NOUN ADJ VERB PRON

Predicted tags: PRON AUX VERB ADP VERB NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADJ ADP DET NOUN NUM ADP DET NOUN NOUN NOUN ADJ ADJ PRON

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.83	1.00	0.91	5
3	1.00	1.00	1.00	7
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	0.75	1.00	0.86	3
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.89	27
macro avg	0.87	0.79	0.69	27
weighted avg	0.94	0.89	0.87	27

Sentence: and from milwaukee to atlanta before 10 am daily

True tags: CCONJ ADP PROPN ADP PROPN ADP NUM NOUN ADJ

Predicted tags: PRON ADP PROPN ADP PROPN ADP NUM NOUN ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.86	0.86	0.71	9
weighted avg	1.00	0.89	0.89	9

Sentence: list daily flights from denver to boston
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.90	0.80	0.73	7
weighted avg	0.93	0.86	0.81	7

Sentence: list flights from boston to pittsburgh daily
True tags: VERB NOUN ADP PROPN ADP PROPN ADJ
Predicted tags: VERB NOUN ADP PROPN ADP PROPN NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.86	0.86	7

Sentence: show me all daily flights between milwaukee and orlando
True tags: VERB PRON DET ADJ NOUN ADP PROPN CCONJ PROPN

Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.94	0.88	0.83	9
weighted avg	0.94	0.89	0.85	9

Sentence: list daily flights from boston to oakland using continental airlines
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN VERB PROPN PROPN
Predicted tags: VERB VERB NOUN ADP PROPN ADP PROPN VERB PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
7	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.93	0.80	0.76	10
weighted avg	0.93	0.90	0.86	10

Sentence: show me the flights arriving in baltimore on june fifteenth leaving either from denver or dallas
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ VERB CCONJ ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ VERB VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1

	precision	recall	f1-score	support
10	1.00	0.50	0.67	2
accuracy			0.94	16
macro avg	0.97	0.94	0.94	16
weighted avg	0.95	0.94	0.93	16

Sentence: list the flights from pittsburgh to baltimore arriving on july first
True tags: VERB DET NOUN ADP PROPN ADP PROPN VERB ADP NOUN ADJ
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN VERB ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights arriving on baltimore on june fourteenth
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the cheapest flight arriving in baltimore on june fourteenth starting from dallas
True tags: VERB PRON DET ADJ NOUN VERB ADP PROPN ADP NOUN ADJ VERB ADP PROPN
Predicted tags: VERB PRON DET ADJ NOUN VERB ADP PROPN ADP NOUN ADJ ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
accuracy			0.93	14
macro avg	0.95	0.95	0.94	14
weighted avg	0.95	0.93	0.93	14

Sentence: how many airlines fly from new york to los angeles by way of milwaukee
True tags: ADV ADJ NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Predicted tags: VERB NOUN NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	0.67	1.00	0.80	2
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.86	0.67	0.58	14
weighted avg	0.92	0.86	0.80	14

Sentence: how many flights does twa have in business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: VERB NOUN NOUN AUX PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.89	0.71	0.65	9
weighted avg	0.86	0.78	0.69	9

Sentence: how many first class flights does delta have today
True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB NOUN
Predicted tags: VERB NOUN ADJ NOUN NOUN ADJ PROPN VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	0.67	0.67	0.67	3
4	0.33	1.00	0.50	1
7	0.00	0.00	0.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.44	9
macro avg	0.67	0.44	0.36	9
weighted avg	0.70	0.44	0.39	9

Sentence: how many flights does twa have with business class
True tags: ADV ADJ NOUN AUX PROPN VERB ADP NOUN NOUN
Predicted tags: VERB NOUN NOUN AUX PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	0.75	1.00	0.86	3
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.89	0.71	0.65	9
weighted avg	0.86	0.78	0.69	9

Sentence: how many first class flights does united have leaving from all cities today
True tags: ADV ADJ ADV NOUN NOUN AUX PROPN VERB VERB ADP DET NOUN NOUN
Predicted tags: VERB NOUN ADJ NOUN NOUN ADJ PROPN VERB VERB ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	0.80	1.00	0.89	4
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
7	0.00	0.00	0.00	1
8	1.00	0.00	0.00	1

| | 11 | 1.00 | 0.00 | 0.00 | 2 |

	precision	recall	f1-score	support
accuracy			0.69	13
macro avg	0.81	0.62	0.59	13
weighted avg	0.81	0.69	0.63	13

Sentence: what time does the tuesday morning 755 flight leaving washington arrive in san francisco
True tags: DET NOUN AUX DET NOUN NOUN NUM NOUN VERB PROPN VERB ADP PROPN PROPN
Predicted tags: PRON NOUN AUX DET NOUN NOUN PROPN NOUN VERB PROPN VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.86	14
macro avg	0.84	0.81	0.69	14
weighted avg	0.95	0.86	0.85	14

Sentence: i would like the time of your earliest flight in the morning from philadelphia to washington on american airlines
True tags: PRON AUX VERB DET NOUN ADP DET ADJ NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB DET NOUN ADP DET ADJ NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: when does continental fly from philadelphia to denver on sundays
True tags: ADV AUX PROPN VERB ADP PROPN ADP PROPN ADP PROPN
Predicted tags: VERB VERB PROPN VERB ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
4	0.33	1.00	0.50	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.87	0.60	0.50	10
weighted avg	0.93	0.80	0.75	10

Sentence: i would like a schedule of flights from san francisco to boston on wednesday
True tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: in pittsburgh i <unk> like to rent a car
True tags: ADP PROPN PRON AUX VERB PART VERB DET NOUN
Predicted tags: ADP PROPN PRON AUX ADP ADP VERB DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	0.33	1.00	0.50	1
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.92	0.81	0.77	9
weighted avg	0.93	0.78	0.76	9

Sentence: is there limousine service available at baltimore airport
True tags: AUX PRON NOUN NOUN ADJ ADP PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2
4	0.00	1.00	0.00	0
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.81	0.71	0.54	8
weighted avg	0.92	0.75	0.70	8

Sentence: may i have a listing of flights from long beach california to columbus ohio on wednesday
True tags: AUX PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: NOUN PRON VERB DET NOUN ADP NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.94	16
macro avg	0.96	0.86	0.84	16
weighted avg	0.95	0.94	0.91	16

Sentence: i need a ticket from nashville tennessee to seattle
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.92	0.94	0.91	9
weighted avg	0.94	0.89	0.90	9

Sentence: i <unk> need information please on a flight from washington dc san francisco california
True tags: PRON AUX VERB NOUN INTJ ADP DET NOUN ADP PROPN PROPN PROPN PROPN PROPN
Predicted tags: PRON AUX VERB NOUN VERB ADP DET NOUN ADP PROPN PROPN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.94	0.88	0.83	14
weighted avg	0.96	0.93	0.90	14

Sentence: please list any flights from oakland california to philadelphia on tuesday
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: VERB VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.91	11

	precision	recall	f1-score	support
macro avg	0.92	0.83	0.78	11
weighted avg	0.95	0.91	0.88	11

Sentence: can you tell me which flight from dallas to baltimore has the least expensive fare
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN VERB DET ADJ ADJ NOUN
Predicted tags: PRON PRON VERB PRON AUX NOUN ADP PROPN ADP PROPN VERB DET ADJ ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.67	1.00	0.80	2
7	1.00	1.00	1.00	2
8	0.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.83	0.81	0.81	15
weighted avg	0.89	0.87	0.86	15

Sentence: of the flights available from dallas to baltimore on august third which airline has the least expensive flight
True tags: ADP DET NOUN ADJ ADP PROPN ADP PROPN ADP NOUN ADJ DET NOUN VERB DET ADJ ADJ NOUN
Predicted tags: ADP DET NOUN ADJ ADP PROPN ADP PROPN ADP NOUN ADJ ADJ NOUN ADJ DET ADJ ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	1.00	0.00	0.00	1
5	1.00	0.67	0.80	3
7	0.67	1.00	0.80	4
accuracy			0.89	18
macro avg	0.94	0.78	0.77	18
weighted avg	0.93	0.89	0.87	18

Sentence: what are the most expensive first class tickets between boston and san francisco
True tags: PRON AUX DET ADJ ADJ ADV NOUN NOUN ADP PROPN CCONJ PROPN PROPN

Predicted tags: PRON AUX DET ADJ ADJ ADJ NOUN NOUN ADP PROPN CCONJ PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.96	0.89	0.87	13
weighted avg	0.95	0.92	0.89	13

Sentence: what are the least expensive flights from denver to atlanta
True tags: PRON AUX DET ADJ ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ ADJ NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what <unk> the price of the least expensive first class round trip ticket on us air from cleveland to miami
True tags: PRON AUX DET NOUN ADP DET ADJ ADJ ADV NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP DET ADJ ADJ ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
5	1.00	1.00	1.00	2

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	0.67	1.00	0.80	2
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.95	20
macro avg	0.96	0.88	0.85	20
weighted avg	0.97	0.95	0.93	20

Sentence: great now what i want to find out is on april twentieth from washington to denver do you have a flight least expensive fare around 5 <unk> in the morning
True tags: ADJ ADV PRON PRON VERB PART VERB ADV AUX ADP NOUN ADJ ADP PROPN ADP PROPN AUX PRON VERB DET NOUN ADJ ADJ NOUN ADP NUM ADV ADP DET NOUN
Predicted tags: VERB NOUN DET PRON VERB ADP VERB ADP VERB ADP NOUN ADJ ADP PROPN ADP PROPN CCONJ PRON VERB DET NOUN NUM ADJ NOUN ADP NUM NUM ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.71	1.00	0.83	5
3	0.80	1.00	0.89	4
4	0.60	1.00	0.75	3
5	0.67	1.00	0.80	2
6	1.00	0.67	0.80	3
7	1.00	0.50	0.67	4
8	1.00	0.00	0.00	2
9	0.33	1.00	0.50	1
10	0.00	1.00	0.00	0
11	1.00	0.00	0.00	3
12	1.00	0.00	0.00	1
accuracy			0.70	30
macro avg	0.76	0.68	0.52	30
weighted avg	0.84	0.70	0.64	30

Sentence: what ground transportation is available between milwaukee airport and downtown milwaukee
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN CCONJ NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN CCONJ NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1

	precision	recall	f1-score	support
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.88	0.88	0.75	11
weighted avg	1.00	0.91	0.91	11

Sentence: please list all the takeoffs and landings for general mitchell international
True tags: INTJ VERB DET DET NOUN CCONJ NOUN ADP PROPN PROPN PROPN
Predicted tags: VERB VERB DET DET ADJ VERB PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	1
3	1.00	0.00	0.00	2
4	0.33	1.00	0.50	1
5	1.00	1.00	1.00	2
7	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.64	11
macro avg	0.76	0.62	0.42	11
weighted avg	0.87	0.64	0.55	11

Sentence: what ground transportation is available from la guardia airport into new york city
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: what ground transportation is available from dallas fort worth airport to downtown dallas
True tags: DET NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN PROPN PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: ground transportation please in the city of boston between airport and downtown
True tags: NOUN NOUN INTJ ADP DET PROPN ADP PROPN ADP NOUN CCONJ NOUN
Predicted tags: NOUN NOUN VERB ADP DET PROPN ADP PROPN ADP NOUN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.86	0.86	0.71	12
weighted avg	1.00	0.92	0.92	12

Sentence: ground san francisco
True tags: NOUN PROPN PROPN
Predicted tags: NOUN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: tell me about ground transportation at san francisco
True tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON ADP NOUN NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: now show me all the flights from <unk> louis to burbank
True tags: ADV VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: saturday or sunday flights between milwaukee and phoenix american airlines
True tags: NOUN CCONJ NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: NOUN VERB NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
10	1.00	0.50	0.67	2
accuracy			0.90	10
macro avg	0.80	0.90	0.73	10
weighted avg	1.00	0.90	0.93	10

Sentence: show me all flights from denver or philadelphia or pittsburgh to baltimore
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN CCONJ PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN CCONJ PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	2
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what are the flights from cleveland to indianapolis on wednesday may twelfth on either twa delta or continental
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADP CCONJ PROPN PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN ADJ ADP NUM PROPN PROPN VERB PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
10	1.00	0.00	0.00	2

```
   accuracy                    0.89      18
  macro avg      0.80    0.90    0.70      18
weighted avg      1.00    0.89    0.89      18
```

Sentence: list all flights that leave from baltimore or denver or pittsburgh and arrive in philadelphia
True tags: VERB DET NOUN ADP VERB ADP PROPN CCONJ PROPN CCONJ PROPN CCONJ VERB ADP PROPN
Predicted tags: VERB DET NOUN PROPN VERB ADP PROPN VERB PROPN CCONJ PROPN CCONJ CCONJ ADP PROPN
Classification Report:

```
           precision   recall  f1-score   support

        1      0.80     1.00     0.89        4
        2      1.00     0.67     0.80        3
        3      1.00     1.00     1.00        1
        4      0.67     0.67     0.67        3
        5      1.00     1.00     1.00        1
       10      0.67     0.67     0.67        3

  accuracy                      0.80       15
 macro avg      0.86     0.83     0.84       15
weighted avg    0.81     0.80     0.80       15
```

Sentence: what does the fare code y mean
True tags: PRON AUX DET NOUN NOUN NOUN VERB
Predicted tags: PRON AUX DET NOUN NOUN PROPN VERB
Classification Report:

```
           precision   recall  f1-score   support

        1      0.00     1.00     0.00        0
        3      1.00     0.67     0.80        3
        4      1.00     1.00     1.00        1
        5      1.00     1.00     1.00        1
        6      1.00     1.00     1.00        1
        8      1.00     1.00     1.00        1

  accuracy                      0.86        7
 macro avg      0.83     0.94     0.80        7
weighted avg    1.00     0.86     0.91        7
```

Sentence: what does fare code qw mean
True tags: PRON AUX NOUN NOUN PROPN VERB
Predicted tags: PRON AUX NOUN NOUN PROPN VERB
Classification Report:

```
           precision   recall  f1-score   support

        1      1.00     1.00     1.00        1
        3      1.00     1.00     1.00        2
        4      1.00     1.00     1.00        1
```

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what is fare code qw
True tags: PRON AUX NOUN NOUN PROPN
Predicted tags: PRON AUX NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: what does fare code <unk> mean
True tags: PRON AUX NOUN NOUN PROPN VERB
Predicted tags: PRON AUX NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what does the fare code yn mean
True tags: PRON AUX DET NOUN NOUN PROPN VERB
Predicted tags: PRON AUX DET NOUN NOUN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: list all flights on united from san francisco to boston with fare code qx
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: what is the latest flight from boston to denver that serves a meal
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list all flights from chicago to seattle on continental which depart on saturday and serve meals
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PRON VERB ADP NOUN CCONJ VERB NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN DET VERB ADP NOUN CCONJ VERB NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	0.50	1.00	0.67	1
6	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.93	0.86	0.81	16
weighted avg	0.97	0.94	0.92	16

Sentence: could you tell me what the earliest flight that goes between atlanta and denver is which serves a meal
True tags: AUX PRON VERB PRON PRON DET ADJ NOUN ADP VERB ADP PROPN CCONJ PROPN AUX PRON VERB DET NOUN
Predicted tags: PRON PRON VERB PRON DET DET ADJ NOUN PROPN VERB ADP PROPN CCONJ PROPN CCONJ ADJ NOUN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.50	0.67	2
3	0.67	1.00	0.80	2
4	1.00	0.67	0.80	3
5	0.67	1.00	0.80	2
6	0.67	0.50	0.57	4
7	0.50	1.00	0.67	1
8	1.00	0.00	0.00	2
10	0.50	1.00	0.67	1
accuracy			0.68	19
macro avg	0.74	0.74	0.64	19
weighted avg	0.77	0.68	0.64	19

Sentence: give me the saturday morning flights with meals from chicago to minneapolis
True tags: VERB PRON DET NOUN NOUN NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: list flights from seattle to salt lake city on delta l10
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all flights from san diego to phoenix on a boeing 737
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET PROPN NUM
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	3
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.89	0.82	0.77	13
weighted avg	0.88	0.85	0.82	13

Sentence: what is a d9s
True tags: PRON AUX DET PROPN
Predicted tags: PRON AUX DET NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.75	4
macro avg	0.80	0.80	0.60	4
weighted avg	1.00	0.75	0.75	4

Sentence: what is the earliest flight between baltimore and oakland that serves breakfast
True tags: PRON AUX DET ADJ NOUN ADP PROPN CCONJ PROPN ADP VERB NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN CCONJ PROPN PROPN VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.50	0.67	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.96	0.94	0.94	12
weighted avg	0.94	0.92	0.91	12

Sentence: a breakfast flight from denver to san francisco please
True tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN INTJ
Predicted tags: DET NOUN NOUN ADP PROPN ADP PROPN PROPN CCONJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
10	0.00	1.00	0.00	0
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.83	0.83	0.67	9
weighted avg	1.00	0.89	0.89	9

Sentence: list flights between boston and san francisco that serve breakfast
True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN ADP VERB NOUN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN PROPN VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.50	0.67	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.95	0.90	0.90	10
weighted avg	0.93	0.90	0.89	10

Sentence: give me all flights from boston to philadelphia next week arriving after lunch
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADJ NOUN VERB ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN DET NOUN VERB ADP NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.81	0.83	0.68	13
weighted avg	0.96	0.85	0.85	13

Sentence: please show me flights from pittsburgh to atlanta on wednesday morning serving breakfast
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN VERB NOUN
Predicted tags: VERB VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN NOUN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	0.80	1.00	0.89	4
4	0.50	0.50	0.50	2
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.88	0.75	0.73	13
weighted avg	0.86	0.85	0.81	13

Sentence: what is the first flight that goes from atlanta to baltimore that serves breakfast
True tags: PRON AUX DET ADJ NOUN ADP VERB ADP PROPN ADP PROPN ADP VERB NOUN
Predicted tags: PRON AUX DET ADJ NOUN NOUN VERB ADP PROPN ADP PROPN ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.75	0.86	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.96	0.97	0.96	14
weighted avg	0.95	0.93	0.93	14

Sentence: which flights arrive in <unk> louis from <unk> paul on thursday morning
True tags: DET NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN
Predicted tags: DET NOUN VERB ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like one flight from kansas city to <unk> paul arriving around dinnertime 6 pm
True tags: PRON AUX VERB NUM NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP NOUN NUM NOUN
Predicted tags: PRON AUX VERB VERB NOUN ADP PROPN PROPN ADP PROPN PROPN VERB ADP PROPN NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
accuracy			0.88	16
macro avg	0.92	0.88	0.88	16
weighted avg	0.91	0.88	0.87	16

Sentence: list flights from dallas to houston arriving sunday afternoon
True tags: VERB NOUN ADP PROPN ADP PROPN VERB NOUN NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: list nonstop flights from baltimore washington airport to oakland that depart in the afternoon
True tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP VERB ADP DET NOUN
Predicted tags: VERB NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN ADP VERB ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i need flight information on thursday leaving pittsburgh and arriving in baltimore in the morning
True tags: PRON VERB NOUN NOUN ADP NOUN VERB PROPN CCONJ VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN VERB PROPN VERB VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.93	15
macro avg	0.96	0.86	0.84	15
weighted avg	0.95	0.93	0.90	15

Sentence: morning flights out of san francisco arriving boston afternoon
True tags: NOUN NOUN ADP ADP PROPN PROPN VERB PROPN NOUN
Predicted tags: NOUN NOUN ADP ADP PROPN PROPN VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i would like to <unk> my flight in washington dc stop in denver with the destination city of san francisco
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN VERB ADP PROPN ADP DET NOUN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP VERB VERB NOUN ADP PROPN PROPN NUM ADP PROPN ADP DET NOUN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	0.80	1.00	0.89	4
3	1.00	1.00	1.00	2
4	0.67	0.67	0.67	3
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
12	1.00	0.00	0.00	1
accuracy			0.85	20
macro avg	0.83	0.80	0.69	20
weighted avg	0.91	0.85	0.84	20

Sentence: show me a list of flights on july twenty second leaving dc to dallas leaving dc after 6 pm
True tags: VERB PRON DET NOUN ADP NOUN ADP NOUN NUM ADJ VERB PROPN ADP PROPN VERB PROPN ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP NOUN NUM ADJ VERB VERB ADP PROPN VERB PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	1.00	1.00	2
accuracy			0.95	19
macro avg	0.97	0.96	0.96	19
weighted avg	0.96	0.95	0.95	19

Sentence: what airlines from washington dc to columbus
True tags: DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.80	0.80	0.60	7

weighted avg   1.00   0.86   0.86   7

Sentence: list flights from washington dc to boston
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: could you please give me information <unk> american airlines a flight
from washington dc to philadelphia the earliest one in the morning as possible
True tags: AUX PRON INTJ VERB PRON NOUN VERB PROPN PROPN DET
NOUN ADP PROPN PROPN ADP PROPN DET ADJ PRON ADP DET NOUN ADP
ADJ
Predicted tags: PRON PRON VERB VERB PRON NOUN PROPN PROPN PROPN
DET NOUN ADP PROPN PROPN ADP PROPN DET ADJ ADJ ADP DET NOUN
PROPN NUM
Classification Report:

	precision	recall	f1-score	support
1	0.71	1.00	0.83	5
2	1.00	0.75	0.86	4
3	1.00	1.00	1.00	3
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	3
6	0.67	0.67	0.67	3
7	0.50	0.50	0.50	2
8	1.00	0.00	0.00	1
9	0.00	1.00	0.00	0
13	1.00	0.00	0.00	1
accuracy			0.75	24
macro avg	0.74	0.64	0.54	24
weighted avg	0.82	0.75	0.73	24

Sentence: list flights from washington dc to pittsburgh
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: i need a flight from washington dc to san diego
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i would like to fly from boston to baltimore please tell me what are the times of the flights
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN INTJ VERB PRON PRON AUX DET NOUN ADP DET NOUN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN VERB VERB PRON DET AUX DET NOUN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	0.75	1.00	0.86	3
5	0.67	1.00	0.80	2
6	1.00	0.67	0.80	3
8	1.00	1.00	1.00	2
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.84	19
macro avg	0.91	0.74	0.70	19
weighted avg	0.89	0.84	0.80	19

Sentence: does flight dl <unk> dl <unk> from boston to denver stop in philadelphia

True tags: AUX NOUN PROPN NUM PROPN NUM ADP PROPN ADP PROPN VERB ADP PROPN
Predicted tags: PRON NOUN PROPN PROPN PROPN PROPN ADP PROPN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.62	1.00	0.77	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	2
accuracy			0.69	13
macro avg	0.80	0.57	0.40	13
weighted avg	0.86	0.69	0.60	13

Sentence: what kind of airplane is flight ua 281 from boston to denver
True tags: DET NOUN ADP NOUN AUX NOUN PROPN NUM ADP PROPN ADP PROPN
Predicted tags: PRON NOUN ADP NOUN VERB NOUN PROPN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy			0.75	12
macro avg	0.75	0.62	0.38	12
weighted avg	1.00	0.75	0.75	12

Sentence: what is the price of american airlines flight <unk> from new york to los angeles
True tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN NUM ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN NOUN NUM ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: what is the first class fare on united flight <unk> from denver to boston
True tags: PRON AUX DET ADV NOUN NOUN ADP PROPN NOUN NUM ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN NOUN NUM ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.89	0.89	0.78	14
weighted avg	1.00	0.93	0.93	14

Sentence: how much does flight ua 281 from boston to denver cost
True tags: ADV ADV AUX NOUN PROPN NUM ADP PROPN ADP PROPN VERB
Predicted tags: VERB AUX AUX NOUN PROPN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.00	0.00	0.00	1
8	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	2
accuracy			0.64	11
macro avg	0.75	0.57	0.50	11

weighted avg   0.80   0.64   0.57   11

Sentence: does flight dl <unk> from philadelphia to denver fly on saturdays
True tags: AUX NOUN PROPN PROPN ADP PROPN ADP PROPN VERB ADP
PROPN
Predicted tags: PRON NOUN PROPN PROPN ADP PROPN ADP PROPN VERB
ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.83	0.83	0.67	11
weighted avg	1.00	0.91	0.91	11

Sentence: what airline is dl <unk>
True tags: DET NOUN AUX PROPN NUM
Predicted tags: PRON NOUN AUX PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.60	5
macro avg	0.75	0.67	0.44	5
weighted avg	0.90	0.60	0.53	5

Sentence: what first class airplane goes from philadelphia to san francisco and stops
in dallas in the afternoon on monday
True tags: DET ADV NOUN NOUN VERB ADP PROPN ADP PROPN PROPN
CCONJ VERB ADP PROPN ADP DET NOUN ADP NOUN
Predicted tags: PRON AUX NOUN NOUN NOUN ADP PROPN ADP PROPN
PROPN CCONJ PROPN ADP PROPN ADP DET NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	1.00	1.00	5
3	0.80	1.00	0.89	4

	precision	recall	f1-score	support
4	1.00	0.00	0.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
8	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.79	19
macro avg	0.73	0.72	0.49	19
weighted avg	0.92	0.79	0.76	19

Sentence: what planes are used by twa
True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: PRON NOUN VERB VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
accuracy			0.67	6
macro avg	0.79	0.71	0.52	6
weighted avg	0.92	0.67	0.61	6

Sentence: <unk> leaving denver to san francisco before 10 am what type of aircraft is used
True tags: VERB VERB PROPN ADP PROPN PROPN ADP NUM NOUN DET NOUN ADP NOUN AUX VERB
Predicted tags: VERB VERB PROPN ADP PROPN PROPN ADP NUM NOUN DET NOUN ADP NOUN VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.96	0.86	0.84	15
weighted avg	0.95	0.93	0.90	15

Sentence: what kinds of planes are used by midway airlines
True tags: DET NOUN ADP NOUN AUX VERB ADP NOUN PROPN
Predicted tags: PRON AUX ADP PROPN VERB VERB ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	0.33	0.50	3
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	0.00	0.00	0.00	1
accuracy			0.56	9
macro avg	0.57	0.62	0.40	9
weighted avg	0.78	0.56	0.54	9

Sentence: what type of aircraft leaves from boston to washington dc at 9 am during a weekday
True tags: DET NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN ADP NUM NOUN ADP DET NOUN
Predicted tags: PRON NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN ADP NUM NOUN NOUN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.80	0.89	5
3	0.80	1.00	0.89	4
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.88	16
macro avg	0.83	0.90	0.78	16
weighted avg	0.95	0.88	0.90	16

Sentence: what type of aircraft are flying from cleveland to dallas before noon
True tags: DET NOUN ADP NOUN AUX VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN ADP NOUN VERB VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	0.50	1.00	0.67	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.79	0.71	0.52	12
weighted avg	0.96	0.83	0.81	12

Sentence: what airplane types fly from pittsburgh to baltimore
True tags: DET NOUN NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.83	0.83	0.67	8
weighted avg	1.00	0.88	0.88	8

Sentence: what is ground transportation between the san francisco airport and the city
True tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN CCONJ DET PROPN
Predicted tags: PRON AUX NOUN NOUN ADP DET PROPN PROPN PROPN CCONJ DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.95	0.96	0.95	12
weighted avg	0.94	0.92	0.92	12

Sentence: what flights on united leave la guardia for san jose and arrive around 10 pm

True tags: DET NOUN ADP PROPN VERB PROPN PROPN ADP PROPN PROPN CCONJ VERB ADP NUM NOUN
Predicted tags: PRON NOUN ADP PROPN VERB PROPN PROPN ADP PROPN PROPN CCONJ VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.88	0.88	0.75	15
weighted avg	1.00	0.93	0.93	15

Sentence: what ground transportation is available from the denver airport to downtown denver
True tags: DET NOUN NOUN AUX ADJ ADP DET PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP DET PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.86	0.93	0.81	12
weighted avg	1.00	0.92	0.94	12

Sentence: list us air flights leaving saturday from charlotte airport around 1 pm
True tags: VERB PROPN PROPN NOUN VERB NOUN ADP PROPN PROPN ADP NUM NOUN
Predicted tags: VERB PROPN PROPN NOUN VERB NOUN ADP PROPN PROPN PROPN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4

	precision	recall	f1-score	support
2	1.00	0.50	0.67	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
10	0.00	1.00	0.00	0
accuracy			0.83	12
macro avg	0.80	0.75	0.59	12
weighted avg	0.93	0.83	0.82	12

Sentence: could you tell me about ground transportation arrangements from the dallas airport to downtown dallas
True tags: AUX PRON VERB PRON ADP NOUN NOUN NOUN ADP DET PROPN PROPN ADP NOUN PROPN
Predicted tags: PRON PRON VERB PRON ADP NOUN NOUN PROPN ADP DET PROPN PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	0.67	1.00	0.80	2
8	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.92	0.82	0.79	15
weighted avg	0.91	0.87	0.84	15

Sentence: please list the flights taking off and landing on general mitchell international airport
True tags: INTJ VERB DET NOUN VERB ADV CCONJ NOUN ADP PROPN PROPN PROPN PROPN
Predicted tags: VERB VERB DET NOUN ADJ VERB VERB VERB ADP NOUN PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.75	0.86	4
2	1.00	1.00	1.00	1
3	0.50	0.50	0.50	2
4	0.20	0.50	0.29	2
5	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
10	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1

accuracy		0.54	13
macro avg	0.74	0.53	0.40	13
weighted avg	0.80	0.54	0.54	13

Sentence: i <unk> like to fly from cleveland to indianapolis tomorrow morning as early as possible what <unk> available
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN ADP ADV ADP ADJ PRON AUX ADJ
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN NOUN NOUN PROPN NUM ADP NUM DET ADJ ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.75	0.75	0.75	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	0.00	1.00	0.00	0
6	1.00	0.50	0.67	2
7	0.50	0.50	0.50	2
8	1.00	0.50	0.67	2
9	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.67	18
macro avg	0.72	0.66	0.49	18
weighted avg	0.85	0.67	0.68	18

Sentence: i need a flight from logan to atlanta this afternoon
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.92	0.92	0.89	10
weighted avg	0.95	0.90	0.90	10

Sentence: give me the latest flight tomorrow on american airlines from milwaukee to tacoma
True tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN

Predicted tags: VERB PRON DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like to fly from columbus to nashville tomorrow morning
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.95	0.86	0.83	11
weighted avg	0.94	0.91	0.87	11

Sentence: and what is the last flight from denver to boston for tomorrow evening
True tags: CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
7	1.00	1.00	1.00	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.94	0.88	0.83	13
weighted avg	0.96	0.92	0.90	13

Sentence: list evening flights tomorrow from phoenix to detroit
True tags: VERB NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the flights on continental from indianapolis to san diego in the afternoon tomorrow
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP DET NOUN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: how many flights does northwest have leaving dulles
True tags: ADV ADJ NOUN AUX PROPN VERB VERB PROPN
Predicted tags: VERB NOUN NOUN AUX PROPN VERB VERB PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1

	precision	recall	f1-score	support
4	0.67	1.00	0.80	2
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.86	0.67	0.58	8
weighted avg	0.85	0.75	0.66	8

Sentence: nonstop flights from new york city to las vegas on sunday
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from los angeles to pittsburgh which arrive at pittsburgh on monday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP VERB ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN DET VERB ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.92	0.97	0.93	15
weighted avg	0.97	0.93	0.94	15

Sentence: show me all flights from philadelphia to dallas which arrive in dallas before 3 <unk> pm on saturday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM ADV NOUN ADP NOUN

Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN DET VERB ADP PROPN ADP NOUN ADJ NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.83	0.91	6
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.83	18
macro avg	0.81	0.76	0.60	18
weighted avg	0.93	0.83	0.82	18

Sentence: what flights leave pittsburgh and arrive in los angeles after 5 pm on thursday
True tags: DET NOUN VERB PROPN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN ADP NOUN
Predicted tags: PRON NOUN VERB PROPN VERB VERB ADP PROPN PROPN ADP NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	0.67	1.00	0.80	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.83	0.75	0.60	14
weighted avg	0.95	0.86	0.83	14

Sentence: what is the earliest flight arriving in charlotte from <unk> louis on friday
True tags: PRON AUX DET ADJ NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what flights do you have from boston to pittsburgh on wednesday of next week after 6 pm

True tags: DET NOUN AUX PRON VERB ADP PROPN ADP PROPN ADP NOUN ADP ADJ NOUN ADP NUM NOUN

Predicted tags: PRON NOUN AUX PRON VERB ADP PROPN ADP PROPN ADP NOUN ADP DET ADJ ADP NUM NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	0.75	0.86	4
4	1.00	1.00	1.00	1
5	0.00	0.00	0.00	1
6	0.50	1.00	0.67	1
7	0.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.82	17
macro avg	0.72	0.75	0.72	17
weighted avg	0.85	0.82	0.83	17

Sentence: i <unk> like a flight from <unk> petersburg to miami on that next thursday

True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP DET ADJ NOUN

Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	0.50	0.50	0.50	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1

8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy		0.86	14	
macro avg	0.90	0.81	0.79	14
weighted avg	0.88	0.86	0.83	14

Sentence: i <unk> like to travel from kansas city to chicago next wednesday
True tags: PRON AUX VERB PART VERB ADP PROPN PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.67	1.00	0.80	2
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy		0.83	12	
macro avg	0.90	0.75	0.68	12
weighted avg	0.90	0.83	0.77	12

Sentence: i would like to fly from boston to philadelphia next thursday
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	0.00	1.00	0.00	0
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy		0.82	11	
macro avg	0.85	0.78	0.64	11
weighted avg	0.94	0.82	0.78	11

Sentence: tell me about flights from atlanta to charlotte next monday
True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN ADJ NOUN

Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.94	0.83	0.80	10
weighted avg	0.93	0.90	0.86	10

Sentence: what flights go from pittsburgh to baltimore after 8 <unk> next wednesday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV ADJ NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NUM NUM ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.83	0.78	0.63	12
weighted avg	0.96	0.83	0.81	12

Sentence: give me the fares for round trip flights from cleveland to miami next wednesday
True tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP NOUN NOUN NOUN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.83	1.00	0.91	5
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.98	0.86	0.84	14
weighted avg	0.94	0.93	0.90	14

Sentence: i want to leave chicago next tuesday and arrive in detroit around 6 pm
True tags: PRON VERB PART VERB PROPN ADJ NOUN CCONJ VERB ADP PROPN ADP NUM NOUN
Predicted tags: PRON VERB VERB VERB PROPN NOUN NOUN CCONJ VERB ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	0.75	1.00	0.86	3
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.94	0.78	0.74	14
weighted avg	0.90	0.86	0.80	14

Sentence: i want a flight from montreal to washington dc
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me the flights leaving from atlanta for washington dc on thursday morning
True tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN

Predicted tags: VERB PRON DET NOUN VERB ADP PROPN ADP PROPN PROPN ADP NOUN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: show me flights from denver to dc on wednesday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please give me the flights from san francisco to washington dc
True tags: INTJ VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11

weighted avg   0.95   0.91   0.88   11

Sentence: show me the prices of all flights from atlanta to washington dc
True tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the latest flight on wednesday going from atlanta to washington dc
True tags: PRON AUX DET ADJ NOUN ADP NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP NOUN NUM ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
accuracy			0.92	13
macro avg	0.89	0.89	0.78	13
weighted avg	1.00	0.92	0.92	13

Sentence: list flights from toronto to washington dc saturday am
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to see the flights from atlanta to washington dc
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.96	0.88	0.85	12
weighted avg	0.94	0.92	0.88	12

Sentence: i <unk> sorry i want to book a flight from atlanta to denver colorado
True tags: PRON AUX ADJ PRON VERB ADP VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB PRON VERB VERB VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	14
macro avg	0.94	0.83	0.81	14
weighted avg	0.93	0.86	0.84	14

Sentence: i would like a list of round trip flights between indianapolis and orlando florida for the twenty seventh and the twenty eighth of december
True tags: PRON AUX VERB DET NOUN ADP NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN ADP DET NUM ADJ CCONJ DET NUM ADJ ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN ADP DET ADJ ADJ VERB DET ADJ ADJ ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	3
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	2
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
10	1.00	0.50	0.67	2
accuracy			0.88	24
macro avg	0.90	0.85	0.80	24
weighted avg	0.94	0.88	0.85	24

Sentence: may i have a listing of flights on monday from minneapolis to long beach california please
True tags: AUX PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN INTJ
Predicted tags: NOUN PRON VERB DET NOUN ADP NOUN ADP NOUN ADP PROPN ADP PROPN PROPN PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.91	0.75	0.69	16
weighted avg	0.92	0.88	0.83	16

Sentence: please give all flights from dallas to oakland california monday
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB VERB DET NOUN ADP PROPN ADP PROPN PROPN NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.92	0.83	0.78	10
weighted avg	0.95	0.90	0.87	10

Sentence: on tuesday the twenty third flights from philadelphia to san francisco on american airlines
True tags: ADP NOUN DET NUM ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN DET ADJ ADJ NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.92	0.83	0.78	14
weighted avg	0.96	0.93	0.90	14

Sentence: what is the cheapest first class fare from cleveland to miami on us air on february twenty fourth
True tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NUM ADJ
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN NUM ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	3
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
9	1.00	1.00	1.00	1
accuracy			1.00	18
macro avg	1.00	1.00	1.00	18
weighted avg	1.00	1.00	1.00	18

Sentence: cheapest round trip fare from or indianapolis to orlando on december twenty fifth
True tags: ADJ NOUN NOUN NOUN ADP CCONJ PROPN ADP PROPN ADP NOUN NUM ADJ
Predicted tags: DET NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NUM ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	0.00	1.00	0.00	0
7	1.00	0.50	0.67	2
9	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.81	0.79	0.64	13
weighted avg	0.95	0.85	0.84	13

Sentence: i would like to fly from dallas to denver on the morning of august twenty seventh leaving at <unk>
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN NUM ADJ VERB ADP NUM
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN ADP DET NOUN ADP NOUN ADJ ADJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	0.83	1.00	0.91	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.84	19
macro avg	0.90	0.80	0.74	19
weighted avg	0.89	0.84	0.78	19

Sentence: give me the flights from indianapolis to orlando on december twenty seventh and twenty eighth
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NUM ADJ CCONJ NUM ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN NUM ADJ VERB VERB ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.33	1.00	0.50	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
9	1.00	0.50	0.67	2
10	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.93	0.83	0.80	15
weighted avg	0.96	0.87	0.86	15

Sentence: i would like to book a flight going from tampa to seattle on may twenty sixth i would like to stop in milwaukee on the way
True tags: PRON AUX VERB PART VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN NUM ADJ PRON AUX VERB PART VERB ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADJ ADJ PRON AUX VERB VERB VERB ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.83	1.00	0.91	5
3	1.00	1.00	1.00	3
4	0.83	1.00	0.91	5
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	2
9	1.00	0.00	0.00	1
12	1.00	0.00	0.00	2
accuracy			0.88	26
macro avg	0.92	0.80	0.75	26
weighted avg	0.92	0.88	0.84	26

Sentence: what is the cheapest one way fare from san francisco to boston on wednesday august twenty first

True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN NUM ADJ

Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	2
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	2
accuracy			0.88	17
macro avg	0.94	0.88	0.83	17
weighted avg	0.94	0.88	0.84	17

Sentence: which flights are available from tacoma to san jose in the morning on april twenty second

True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP NOUN NUM ADJ

Predicted tags: DET NOUN VERB ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP NOUN NUM ADJ

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
8	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.94	16
macro avg	0.88	0.88	0.75	16
weighted avg	1.00	0.94	0.94	16

Sentence: list all round trip flights between indianapolis and orlando on the twenty seventh of december

True tags: VERB DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN ADP DET NUM ADJ ADP NOUN

Predicted tags: VERB DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN ADP DET ADJ ADJ ADP NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
7	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.94	0.88	0.83	15
weighted avg	0.97	0.93	0.91	15

Sentence: what is hp
True tags: PRON AUX PROPN
Predicted tags: PRON AUX PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: define airline us
True tags: VERB NOUN PROPN
Predicted tags: VERB NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: code ff
True tags: NOUN PROPN
Predicted tags: NOUN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	0.50	1.00	0.67	1
accuracy			0.50	2
macro avg	0.75	0.50	0.33	2
weighted avg	0.75	0.50	0.33	2

Sentence: from las vegas to new york a nonstop twa and fare
True tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN PROPN CCONJ NOUN
Predicted tags: ADP PROPN PROPN ADP PROPN PROPN DET NOUN PROPN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: airline that stands for dl
True tags: NOUN ADP VERB ADP PROPN
Predicted tags: NOUN NOUN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
2	1.00	0.50	0.67	2
3	0.33	1.00	0.50	1
4	1.00	1.00	1.00	1
accuracy			0.60	5
macro avg	0.83	0.62	0.54	5
weighted avg	0.87	0.60	0.57	5

Sentence: list round trip flights between boston and oakland using twa
True tags: VERB NOUN NOUN NOUN ADP PROPN CCONJ PROPN VERB PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN CCONJ PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	0.50	0.67	2
10	0.50	1.00	0.67	1
accuracy			0.90	10
macro avg	0.90	0.90	0.87	10
weighted avg	0.95	0.90	0.90	10

Sentence: i <unk> like a twa flight from las vegas to new york nonstop
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Predicted tags: PRON AUX VERB DET NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.80	0.89	5
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.95	0.97	0.96	13
weighted avg	0.95	0.92	0.93	13

Sentence: what airline is <unk>
True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN AUX VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.00	0.00	1
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.50	4
macro avg	0.67	0.67	0.33	4
weighted avg	1.00	0.50	0.50	4

Sentence: what airline is dl
True tags: DET NOUN AUX PROPN
Predicted tags: PRON NOUN AUX PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.75	4
macro avg	0.80	0.80	0.60	4
weighted avg	1.00	0.75	0.75	4

Sentence: find a flight between denver and oakland the flight should leave in the afternoon and arrive near 5 pm the flight should also be nonstop

True tags: VERB DET NOUN ADP PROPN CCONJ PROPN DET NOUN AUX VERB ADP DET NOUN CCONJ VERB ADP NUM NOUN DET NOUN AUX ADV AUX NOUN

Predicted tags: VERB DET NOUN ADP PROPN CCONJ PROPN DET NOUN ADJ VERB ADP DET NOUN CCONJ VERB PROPN ADJ NOUN DET NOUN ADJ ADJ VERB NOUN

Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	6
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	4
7	0.00	1.00	0.00	0
8	1.00	0.00	0.00	3
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	2
11	1.00	0.00	0.00	1
accuracy			0.76	25
macro avg	0.84	0.67	0.55	25
weighted avg	0.94	0.76	0.74	25

Sentence: i need a flight on american airlines from miami to chicago that arrives around 5 pm

True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN

Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: flights from kansas city to cleveland on wednesday arriving before 5 pm
True tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights depart baltimore on friday and arrive in san francisco by 8 pm
True tags: DET NOUN VERB PROPN ADP NOUN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN
Predicted tags: PRON NOUN VERB PROPN ADP NOUN CCONJ VERB ADP PROPN PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.88	0.88	0.75	14
weighted avg	1.00	0.93	0.93	14

Sentence: i <unk> like a nonstop flight from atlanta to baltimore that <unk> in around 7 pm

True tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP VERB ADP ADP NUM NOUN
Predicted tags: PRON AUX VERB DET NOUN NOUN ADP PROPN ADP PROPN ADP VERB ADP ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what nonstop flights between boston and washington arrive after 5 <unk> pm
True tags: DET NOUN NOUN ADP PROPN CCONJ PROPN VERB ADP NUM ADV NOUN
Predicted tags: PRON NOUN NOUN ADP PROPN CCONJ PROPN CCONJ ADP NUM ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
10	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.75	12
macro avg	0.75	0.70	0.47	12
weighted avg	0.96	0.75	0.72	12

Sentence: all flights pittsburgh to baltimore on thursday arrival by 10 am
True tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NOUN
Predicted tags: DET NOUN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me all flights direct and connecting from boston to pittsburgh that arrive in pittsburgh before 10 am
True tags: VERB PRON DET NOUN ADJ CCONJ VERB ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN PROPN VERB VERB ADP PROPN ADP PROPN ADP VERB ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	2
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.89	18
macro avg	0.94	0.78	0.75	18
weighted avg	0.92	0.89	0.84	18

Sentence: cleveland to miami on wednesday arriving before 4 pm
True tags: PROPN ADP PROPN ADP NOUN VERB ADP NUM NOUN
Predicted tags: PROPN ADP PROPN ADP NOUN VERB ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.90	0.80	0.73	9
weighted avg	0.94	0.89	0.85	9

Sentence: show me airlines between boston and san francisco
True tags: VERB PRON NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: show me the airlines that fly from san francisco to boston
True tags: VERB PRON DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN PROPN VERB ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.67	0.80	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.96	0.94	0.94	11
weighted avg	0.93	0.91	0.91	11

Sentence: what airlines fly from boston to denver
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7

weighted avg   1.00   0.86   0.86   7

Sentence: what airlines have flights from baltimore to seattle
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB NOUN ADP PROPN ADP PROPN
Classification Report:
          precision   recall f1-score   support

       1   1.00   1.00   1.00   2
       2   1.00   1.00   1.00   2
       3   1.00   1.00   1.00   2
       4   1.00   1.00   1.00   1
       5   1.00   0.00   0.00   1
       6   0.00   1.00   0.00   0

    accuracy   0.88   8
   macro avg   0.83   0.83   0.67   8
weighted avg   1.00   0.88   0.88   8

Sentence: what airlines have flights from boston to philadelphia that leave before
630 am
True tags: DET NOUN VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP
NUM NOUN
Predicted tags: PRON NOUN VERB NOUN ADP PROPN ADP PROPN ADP VERB
ADP VERB NOUN
Classification Report:
          precision   recall f1-score   support

       1   1.00   1.00   1.00   2
       2   1.00   1.00   1.00   4
       3   1.00   1.00   1.00   3
       4   0.67   1.00   0.80   2
       5   1.00   0.00   0.00   1
       6   0.00   1.00   0.00   0
       9   1.00   0.00   0.00   1

    accuracy   0.85   13
   macro avg   0.81   0.71   0.54   13
weighted avg   0.95   0.85   0.82   13

Sentence: are there any airlines that have flights from boston to philadelphia that
leave before 630 am
True tags: VERB PRON DET NOUN ADP VERB NOUN ADP PROPN ADP PROPN
ADP VERB ADP NUM NOUN
Predicted tags: VERB PRON DET NOUN PROPN VERB NOUN ADP PROPN ADP
PROPN ADP VERB ADP VERB NOUN
Classification Report:
          precision   recall f1-score   support

       1   0.67   1.00   0.80   2

	precision	recall	f1-score	support
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	3
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.88	16
macro avg	0.92	0.83	0.79	16
weighted avg	0.91	0.88	0.85	16

Sentence: show me airlines that have flights between toronto and detroit between detroit and <unk> louis and between <unk> louis and toronto
True tags: VERB PRON NOUN ADP VERB NOUN ADP PROPN CCONJ PROPN ADP PROPN CCONJ PROPN PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Predicted tags: VERB PRON NOUN ADP VERB NOUN ADP PROPN CCONJ PROPN ADP PROPN CCONJ CCONJ PROPN CCONJ ADP PROPN PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.88	0.93	8
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
10	0.80	1.00	0.89	4
accuracy			0.95	21
macro avg	0.97	0.98	0.97	21
weighted avg	0.96	0.95	0.95	21

Sentence: which airlines fly between boston and baltimore
True tags: DET NOUN VERB ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: does any airline have an early afternoon flight from boston to pittsburgh
True tags: AUX DET NOUN VERB DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON DET NOUN VERB DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.88	0.88	0.75	12
weighted avg	1.00	0.92	0.92	12

Sentence: please show me airlines with flights from philadelphia to dallas
True tags: INTJ VERB PRON NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB PRON NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.92	0.83	0.78	10
weighted avg	0.95	0.90	0.87	10

Sentence: which airlines fly from boston to san francisco
True tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1

```
   accuracy                    1.00      8
  macro avg      1.00    1.00    1.00       8
weighted avg      1.00    1.00    1.00       8
```

Sentence: which airlines have flights between charlotte and newark
True tags: DET NOUN VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: DET NOUN VERB NOUN ADP PROPN CCONJ PROPN
Classification Report:

```
          precision   recall f1-score   support

       1     1.00     1.00     1.00        2
       2     1.00     1.00     1.00        1
       3     1.00     1.00     1.00        2
       4     1.00     1.00     1.00        1
       5     1.00     1.00     1.00        1
      10     1.00     1.00     1.00        1

   accuracy                    1.00      8
  macro avg      1.00    1.00    1.00       8
weighted avg      1.00    1.00    1.00       8
```

Sentence: show me all flights from san francisco to new york nonstop
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN NOUN
Classification Report:

```
          precision   recall f1-score   support

       1     1.00     1.00     1.00        4
       2     1.00     1.00     1.00        2
       3     1.00     1.00     1.00        2
       4     1.00     1.00     1.00        1
       5     1.00     1.00     1.00        1
       6     1.00     1.00     1.00        1

   accuracy                    1.00     11
  macro avg      1.00    1.00    1.00      11
weighted avg      1.00    1.00    1.00      11
```

Sentence: show me nonstop flights from toronto to <unk> petersburg
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

```
          precision   recall f1-score   support

       1     1.00     1.00     1.00        3
       2     1.00     1.00     1.00        2
       3     1.00     1.00     1.00        2
       4     1.00     1.00     1.00        1
```

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all round trip flights from miami to new york nonstop
True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN ADP PROPN PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: nonstop flights seattle to kansas city
True tags: NOUN NOUN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i want to fly from atlanta to philadelphia nonstop
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN
Predicted tags: PRON VERB VERB VERB ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
12	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.94	0.83	0.80	9
weighted avg	0.93	0.89	0.84	9

Sentence: what is the earliest nonstop flight from washington to san francisco
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: please list nonstop flights from las vegas to new york on america west
True tags: INTJ VERB NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB VERB NOUN NOUN ADP PROPN PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
13	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.90	0.80	0.73	13
weighted avg	0.96	0.92	0.90	13

Sentence: show me first class round trip flights from new york to miami i want the cheapest first class fare please
True tags: VERB PRON ADJ NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET ADJ ADJ NOUN NOUN INTJ
Predicted tags: VERB PRON AUX NOUN NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN PRON VERB DET ADJ ADJ NOUN NOUN NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	6
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	2
7	1.00	0.67	0.80	3
8	0.00	1.00	0.00	0
9	0.00	1.00	0.00	0
13	1.00	0.00	0.00	1
accuracy			0.90	20
macro avg	0.80	0.87	0.68	20
weighted avg	1.00	0.90	0.92	20

Sentence: show me which flights from san francisco to pittsburgh on a monday are first class
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN AUX ADJ NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN NUM ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
9	0.00	1.00	0.00	0
accuracy			0.93	15
macro avg	0.89	0.89	0.78	15
weighted avg	1.00	0.93	0.93	15

Sentence: give me flights from baltimore to denver on united that offer first class
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP PROPN PROPN VERB ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.75	0.86	4

	precision	recall	f1-score	support
3	1.00	0.67	0.80	3
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			0.85	13
macro avg	0.88	0.90	0.86	13
weighted avg	0.90	0.85	0.85	13

Sentence: first class flights pittsburgh to newark monday morning
True tags: ADJ NOUN NOUN PROPN ADP PROPN NOUN NOUN
Predicted tags: DET NOUN NOUN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	4
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: first class fares from dallas to baltimore please
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN INTJ
Predicted tags: DET NOUN NOUN ADP PROPN ADP PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.71	0.71	0.43	8
weighted avg	1.00	0.75	0.75	8

Sentence: show me all united airlines first class flights
True tags: VERB PRON DET PROPN PROPN ADJ NOUN NOUN
Predicted tags: VERB PRON DET PROPN PROPN ADJ NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: first class price san francisco pittsburgh round trip
True tags: ADJ NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Predicted tags: DET NOUN NOUN PROPN PROPN PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.75	0.75	0.50	8
weighted avg	1.00	0.88	0.88	8

Sentence: how much is a first class ticket from baltimore to san francisco
True tags: ADV ADV AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB AUX AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
11	1.00	0.00	0.00	2
accuracy			0.83	12
macro avg	0.81	0.88	0.71	12
weighted avg	0.96	0.83	0.81	12

Sentence: first class american flight from philadelphia to dallas on wednesday
True tags: ADJ NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: DET NOUN PROPN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: show flights first class on american airlines between dallas and philadelphia
True tags: VERB NOUN ADJ NOUN ADP PROPN PROPN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN DET NOUN ADP PROPN PROPN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.86	0.86	0.71	11
weighted avg	1.00	0.91	0.91	11

Sentence: what are the first class fares from dallas to baltimore
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me one way flights from tampa to <unk> louis departing before 10 am first class
True tags: VERB PRON NUM NOUN NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN ADJ NOUN
Predicted tags: VERB PRON VERB NOUN NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
9	1.00	0.50	0.67	2
accuracy			0.94	16
macro avg	0.95	0.93	0.92	16
weighted avg	0.96	0.94	0.93	16

Sentence: what flights leave san francisco on monday night and arrive at atlanta later in the evening
True tags: DET NOUN VERB PROPN PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN ADJ ADP DET NOUN
Predicted tags: PRON NOUN VERB PROPN PROPN ADP NOUN PROPN CCONJ VERB ADP PROPN NUM ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
9	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.81	16
macro avg	0.75	0.81	0.60	16
weighted avg	0.95	0.81	0.83	16

Sentence: please list all flights into denver before noon on united airlines and northwest airlines
True tags: INTJ VERB DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN CCONJ PROPN PROPN

Predicted tags: VERB VERB DET NOUN ADP PROPN ADP NOUN ADP PROPN PROPN CCONJ PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.93	0.86	0.81	14
weighted avg	0.96	0.93	0.90	14

Sentence: what are the coach fares for flights from pittsburgh to denver
True tags: PRON AUX DET PROPN NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN ADP NOUN ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.94	0.94	0.93	11
weighted avg	0.94	0.91	0.91	11

Sentence: what are the flights on tuesday october first from atlanta to baltimore
True tags: PRON AUX DET NOUN ADP NOUN PROPN ADJ ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP NOUN PROPN ADJ ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what are the coach fares from la to charlotte monday morning
True tags: PRON AUX DET PROPN NOUN ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON AUX DET NOUN NOUN ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	2
3	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.96	0.94	0.94	11
weighted avg	0.93	0.91	0.91	11

Sentence: show me dallas ground transport
True tags: VERB PRON PROPN NOUN NOUN
Predicted tags: VERB PRON PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: show me ground transportation in denver
True tags: VERB PRON NOUN NOUN ADP PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what ground transport is available in minneapolis
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN VERB ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.71	7
macro avg	0.75	0.75	0.50	7
weighted avg	1.00	0.71	0.71	7

Sentence: please show me ground transportation in denver
True tags: INTJ VERB PRON NOUN NOUN ADP PROPN
Predicted tags: VERB VERB PRON NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.92	0.83	0.78	7
weighted avg	0.93	0.86	0.81	7

Sentence: what kind of ground transportation is there in dallas
True tags: DET NOUN ADP NOUN NOUN VERB PRON ADP PROPN
Predicted tags: PRON NOUN ADP NOUN NOUN AUX PRON ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3

	precision	recall	f1-score	support
4	1.00	0.00	0.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.78	9
macro avg	0.79	0.71	0.52	9
weighted avg	0.94	0.78	0.74	9

Sentence: what ground transportation is available in charlotte
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7
weighted avg	1.00	0.86	0.86	7

Sentence: what <unk> the ground transportation like at pittsburgh
True tags: PRON AUX DET NOUN NOUN VERB ADP PROPN
Predicted tags: PRON AUX DET NOUN NOUN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.93	0.86	0.81	8
weighted avg	0.94	0.88	0.83	8

Sentence: ground transportation in baltimore
True tags: NOUN NOUN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: what ground transportation is there in dallas
True tags: DET NOUN NOUN AUX PRON ADP PROPN
Predicted tags: PRON NOUN NOUN AUX PRON ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.92	0.83	0.78	7
weighted avg	0.93	0.86	0.81	7

Sentence: what ground transportation is available in baltimore
True tags: DET NOUN NOUN AUX ADJ ADP PROPN
Predicted tags: PRON NOUN NOUN AUX ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.86	7
macro avg	0.86	0.86	0.71	7
weighted avg	1.00	0.86	0.86	7

Sentence: ground transport phoenix
True tags: NOUN NOUN PROPN
Predicted tags: NOUN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: show me information on ground transportation for dallas
True tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Predicted tags: VERB PRON NOUN ADP NOUN NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like an american flight from toronto to san diego with a stopover in denver please
True tags: PRON AUX VERB DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN INTJ
Predicted tags: PRON AUX VERB DET PROPN NOUN ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN CCONJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	0.00	1.00	0.00	0
13	1.00	0.00	0.00	1
accuracy			0.94	17
macro avg	0.89	0.89	0.78	17
weighted avg	1.00	0.94	0.94	17

Sentence: can i go from boston to san francisco with a stopover in denver
True tags: AUX PRON VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN

Predicted tags: PRON PRON VERB ADP PROPN ADP PROPN PROPN ADP DET NOUN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
8	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.93	0.86	0.81	13
weighted avg	0.96	0.92	0.90	13

Sentence: please show me flights from boston to denver with a stopover in philadelphia

True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN

Predicted tags: VERB VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.93	0.86	0.81	13
weighted avg	0.96	0.92	0.90	13

Sentence: show me the flights from new york to los angeles with stop in milwaukee

True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN ADP PROPN

Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NUM ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1

5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
accuracy			0.93	14
macro avg	0.86	0.93	0.81	14
weighted avg	1.00	0.93	0.95	14

Sentence: are there any flights from denver to pittsburgh with stops in atlanta
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: are there any flights from boston to san francisco which stop in denver
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN PRON VERB ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN DET ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	0.50	0.67	2
5	0.50	1.00	0.67	1
6	1.00	0.50	0.67	2
7	0.00	1.00	0.00	0
accuracy			0.85	13
macro avg	0.79	0.86	0.71	13
weighted avg	0.96	0.85	0.87	13

Sentence: all do you have a flight from washington to boston that stops in philadelphia

True tags: DET AUX PRON VERB DET NOUN ADP PROPN ADP PROPN ADP
VERB ADP PROPN
Predicted tags: DET AUX PRON VERB DET NOUN ADP PROPN ADP PROPN
PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.75	0.86	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.96	0.96	0.96	14
weighted avg	0.95	0.93	0.93	14

Sentence: show me the flights from san diego to newark by way of houston
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP
NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP
NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: find a flight on american airlines from boston to san francisco that makes
a stopover in denver
True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
PROPN ADP VERB DET NOUN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN
PROPN PROPN PROPN DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	6
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
accuracy			0.88	17
macro avg	0.95	0.86	0.88	17
weighted avg	0.91	0.88	0.88	17

Sentence: i <unk> looking for a flight that goes from ontario to westchester and stops in chicago
True tags: PRON AUX VERB ADP DET NOUN ADP VERB ADP PROPN ADP PROPN CCONJ VERB ADP PROPN
Predicted tags: PRON AUX VERB ADP DET NOUN PROPN VERB ADP PROPN ADP PROPN VERB PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.60	1.00	0.75	3
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	1
4	0.67	0.67	0.67	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.81	16
macro avg	0.91	0.81	0.79	16
weighted avg	0.86	0.81	0.79	16

Sentence: list the flights from philadelphia to san francisco via dallas
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: are there any flights from denver to atlanta with stops in pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN ADP PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i need a flight from baltimore to seattle that stops in minneapolis
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like a flight that leaves on friday from philadelphia to dallas that makes a stop in atlanta
True tags: PRON AUX VERB DET NOUN ADP VERB ADP NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN ADP PROPN
Predicted tags: PRON AUX VERB DET NOUN NOUN VERB ADP NOUN ADP PROPN ADP PROPN ADP VERB DET NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.83	0.91	6
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

		accuracy	0.95	19
macro avg	0.96	0.98	0.97	19
weighted avg	0.96	0.95	0.95	19

Sentence: list flights from philadelphia to dallas that stop in atlanta
True tags: VERB NOUN ADP PROPN ADP PROPN ADP VERB ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.75	0.86	4
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
accuracy			0.90	10
macro avg	0.94	0.94	0.93	10
weighted avg	0.93	0.90	0.90	10

Sentence: what is the available ground transportation between san francisco and downtown
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN CCONJ NOUN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what ground transportation is there from the airport in atlanta to downtown
True tags: DET NOUN NOUN VERB PRON ADP DET NOUN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN NOUN AUX PRON ADP DET NOUN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1

	precision	recall	f1-score	support
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	4
4	1.00	0.00	0.00	1
5	1.00	0.50	0.67	2
6	0.50	1.00	0.67	1
8	0.00	1.00	0.00	0
accuracy			0.83	12
macro avg	0.79	0.79	0.62	12
weighted avg	0.96	0.83	0.83	12

Sentence: what flights go from dallas to denver leaving after 3 pm
True tags: DET NOUN VERB ADP PROPN ADP PROPN VERB ADP NUM NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.81	0.71	0.54	11
weighted avg	0.94	0.82	0.78	11

Sentence: can you list all flights from chicago to <unk> louis that depart after 12 noon
True tags: AUX PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP VERB ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
8	1.00	0.00	0.00	1
9	1.00	1.00	1.00	1
accuracy			0.93	15
macro avg	0.94	0.88	0.83	15

weighted avg   0.97   0.93   0.91   15

Sentence: is there a flight between philadelphia and denver that leaves philadelphia around 2 <unk> in the afternoon
True tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN ADP VERB PROPN ADP NUM ADV ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN CCONJ PROPN PROPN VERB PROPN ADP VERB VERB ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.75	0.86	4
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.82	17
macro avg	0.92	0.75	0.71	17
weighted avg	0.90	0.82	0.78	17

Sentence: what flights leaving pittsburgh arrive in denver and leave after say 6 <unk> at night
True tags: DET NOUN VERB PROPN VERB ADP PROPN CCONJ VERB ADP VERB NUM ADV ADP NOUN
Predicted tags: PRON NOUN VERB PROPN VERB ADP PROPN CCONJ VERB ADP PROPN NUM NUM ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	2
2	1.00	1.00	1.00	3
3	1.00	0.50	0.67	2
4	1.00	0.75	0.86	4
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.73	15
macro avg	0.78	0.69	0.54	15
weighted avg	0.90	0.73	0.72	15

Sentence: dallas to houston after <unk> am
True tags: PROPN ADP PROPN ADP NUM NOUN

Predicted tags: PROPN ADP PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.83	6
macro avg	0.92	0.75	0.70	6
weighted avg	0.89	0.83	0.77	6

Sentence: is there a flight around 3 pm from charlotte to minneapolis
True tags: VERB PRON DET NOUN ADP NUM NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN PROPN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.67	0.80	3
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.90	0.81	0.77	11
weighted avg	0.88	0.82	0.78	11

Sentence: i like to see the information for flights from pittsburgh to san francisco leaving pittsburgh after 12 pm
True tags: PRON VERB PART VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB PROPN ADP NUM NOUN
Predicted tags: PRON VERB VERB VERB DET NOUN ADP NOUN ADP PROPN ADP PROPN PROPN VERB PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.94	18
macro avg	0.97	0.88	0.86	18
weighted avg	0.96	0.94	0.92	18

Sentence: a listing of all flights from boston to baltimore before 10 am on thursday
True tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Predicted tags: DET NOUN ADP DET NOUN ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: i <unk> like a flight from san diego to toronto on alaska airlines leaving around 1 pm
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN VERB ADP NUM NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP PROPN PROPN VERB ADP VERB NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.94	17
macro avg	0.96	0.88	0.85	17
weighted avg	0.96	0.94	0.92	17

Sentence: i want a flight from atlanta to washington that leaves after 3 pm
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.75	0.86	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.90	0.82	0.78	13
weighted avg	0.90	0.85	0.82	13

Sentence: list all flights going from boston to atlanta on wednesday after 6 <unk> pm on wednesday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	4
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.94	16
macro avg	0.93	0.86	0.81	16
weighted avg	0.97	0.94	0.92	16

Sentence: i need flight information for a flight departing from cleveland to milwaukee wednesday after 6 pm
True tags: PRON VERB NOUN NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP DET NOUN VERB ADP PROPN ADP PROPN NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
9	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: what flights go from boston to denver before 10 am
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
9	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: list all flights from boston to atlanta after 6 <unk> pm on wednesday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NUM NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.93	0.86	0.81	13
weighted avg	0.96	0.92	0.90	13

Sentence: i <unk> looking for flights from pittsburgh to philadelphia leaving before 9 am
True tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN
Predicted tags: PRON AUX VERB ADP NOUN ADP PROPN ADP PROPN VERB ADP NUM NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: list all flights going from boston to atlanta before 7 am on thursday
True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.96	0.83	0.81	13
weighted avg	0.94	0.92	0.89	13

Sentence: i need flight information for flights departing from cleveland to milwaukee on wednesday after 5 pm
True tags: PRON VERB NOUN NOUN ADP NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NOUN
Predicted tags: PRON VERB NOUN NOUN ADP NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	5
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1

```
   accuracy                      1.00      16
  macro avg      1.00    1.00    1.00      16
weighted avg      1.00    1.00    1.00      16
```

Sentence: can you find me another flight from cincinnati to new york on saturday before 6 pm
True tags: AUX PRON VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NUM NOUN
Predicted tags: PRON PRON VERB PRON NOUN NOUN ADP PROPN ADP PROPN PROPN ADP NOUN ADP NUM NOUN
Classification Report:

```
           precision   recall  f1-score   support

       1      1.00      1.00      1.00        3
       2      1.00      1.00      1.00        4
       3      0.75      1.00      0.86        3
       4      1.00      1.00      1.00        1
       5      1.00      0.00      0.00        1
       6      0.67      1.00      0.80        2
       8      1.00      0.00      0.00        1
       9      1.00      1.00      1.00        1

   accuracy                      0.88       16
  macro avg      0.93      0.75      0.71       16
weighted avg      0.91      0.88      0.82       16
```

Sentence: i would like a flight from san francisco to pittsburgh on friday morning after 10 <unk>
True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NUM ADV
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADP NUM NUM
Classification Report:

```
           precision   recall  f1-score   support

       1      1.00      1.00      1.00        3
       2      1.00      1.00      1.00        4
       3      1.00      1.00      1.00        3
       4      1.00      1.00      1.00        1
       5      1.00      1.00      1.00        1
       6      1.00      1.00      1.00        1
       8      1.00      1.00      1.00        1
       9      0.50      1.00      0.67        1
      11      1.00      0.00      0.00        1

   accuracy                      0.94       16
  macro avg      0.94      0.89      0.85       16
weighted avg      0.97      0.94      0.92       16
```

Sentence: list all flights going from boston to atlanta before 5 <unk> am on thursday

True tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM ADV NOUN ADP NOUN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN ADP NUM NUM NOUN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.93	0.86	0.81	14
weighted avg	0.96	0.93	0.90	14

Sentence: what is the last flight from baltimore to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what <unk> the latest flight from san jose to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

```
        accuracy                    1.00      10
       macro avg      1.00    1.00    1.00      10
    weighted avg      1.00    1.00    1.00      10
```

Sentence: what is the earliest flight from pittsburgh to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show first flight from philadelphia to dallas
True tags: VERB ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.90	0.80	0.73	7
weighted avg	0.93	0.86	0.81	7

Sentence: what <unk> the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the shortest flight from milwaukee to <unk> petersburg
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: shortest evening flight from tampa to cincinnati
True tags: ADJ NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	0.67	1.00	0.80	2
7	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.92	0.75	0.70	7
weighted avg	0.90	0.86	0.80	7

Sentence: what is the earliest flight you have leaving boston heading to philadelphia
True tags: PRON AUX DET ADJ NOUN PRON VERB VERB PROPN VERB ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN AUX VERB VERB PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	0.50	0.67	2
7	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.83	12
macro avg	0.90	0.90	0.87	12
weighted avg	0.90	0.83	0.83	12

Sentence: what is the earliest flight from boston to san francisco
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: flights from denver to westchester county new york weekdays
True tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN PROPN PROPN CCONJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	0.50	0.67	2
10	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.75	0.88	0.67	9
weighted avg	1.00	0.89	0.93	9

Sentence: what is the last flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest flight leaving denver going to boston
True tags: PRON AUX DET ADJ NOUN VERB PROPN VERB ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN VERB PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what is the earliest flight from ontario to memphis
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the earliest flight from atlanta to boston

True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what is the last flight leaving san francisco going to washington on friday
True tags: PRON AUX DET ADJ NOUN VERB PROPN PROPN VERB ADP PROPN ADP NOUN
Predicted tags: PRON AUX DET ADJ NOUN VERB PROPN PROPN VERB ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: what is the earliest morning flight from san francisco to boston
True tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

	precision	recall	f1-score	support
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what <unk> the earliest flight from dallas to houston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to find the earliest flight possible from san francisco to atlanta
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADJ ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB DET ADJ NOUN ADJ ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.93	14
macro avg	0.96	0.89	0.87	14
weighted avg	0.95	0.93	0.90	14

Sentence: what is the latest evening flight leaving san francisco for washington
True tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP PROPN

Predicted tags: PRON AUX DET ADJ NOUN NOUN VERB PROPN PROPN ADP
PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the first flight from boston to atlanta and what is the last flight from atlanta to boston
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN CCONJ PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	2
7	1.00	1.00	1.00	2
8	1.00	1.00	1.00	2
10	1.00	1.00	1.00	1
accuracy			1.00	19
macro avg	1.00	1.00	1.00	19
weighted avg	1.00	1.00	1.00	19

Sentence: what <unk> the cheapest one way ticket from baltimore to atlanta
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Sentence: what <unk> the cheapest round trip fare between boston and washington
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest round trip fare between boston and san francisco
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the cheapest round trip fare from atlanta to pittsburgh
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest fare from baltimore to dallas in any class
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the cheapest one way fare from boston to washington
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1

	precision	recall	f1-score	support
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Sentence: i <unk> interested in the cheapest fare from washington to fort worth
True tags: PRON AUX VERB ADP DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i would like to book a flight from denver to pittsburgh on july fifteenth i <unk> like it to be the cheapest flight
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ PRON AUX VERB PRON PART AUX DET ADJ NOUN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ PRON AUX ADP AUX VERB VERB DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.60	1.00	0.75	3
3	1.00	1.00	1.00	3
4	0.50	0.67	0.57	3
5	1.00	1.00	1.00	2
6	1.00	0.67	0.80	3
7	1.00	1.00	1.00	2
8	0.67	0.67	0.67	3
12	1.00	0.00	0.00	2
accuracy			0.78	23
macro avg	0.86	0.78	0.75	23
weighted avg	0.84	0.78	0.75	23

Sentence: what is the cheapest fare from dallas to denver on delta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: can you show me the cheapest round trip flights between denver and pittsburgh
True tags: AUX PRON VERB PRON DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON PRON VERB PRON DET ADJ NOUN NOUN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	0.67	1.00	0.80	2
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.89	0.87	13
weighted avg	0.95	0.92	0.89	13

Sentence: what <unk> the lowest round trip fare from denver to atlanta
True tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what is the cheapest flight from boston to atlanta
True tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i <unk> like to find the cheapest fare from atlanta to dallas
True tags: PRON AUX VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.96	0.89	0.87	12

weighted avg   0.94   0.92   0.88   12

Sentence: lowest fare from san francisco to los angeles
True tags: ADJ NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
7	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: i <unk> like the lowest fare from denver to pittsburgh
True tags: PRON AUX VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: okay i <unk> want to know the cheapest fare from atlanta to boston
True tags: INTJ PRON ADV VERB PART VERB DET ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON AUX VERB ADP VERB DET ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.77	13
macro avg	0.85	0.73	0.60	13
weighted avg	0.90	0.77	0.71	13

Sentence: what are the lowest one way fares from atlanta to denver
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Sentence: what is the cheapest one way fare from any city to another
True tags: PRON AUX DET ADJ NUM NOUN NOUN ADP DET PROPN ADP DET
Predicted tags: PRON AUX DET ADJ ADJ NOUN NOUN ADP NUM PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.50	1.00	0.67	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
5	1.00	0.33	0.50	3
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
9	0.00	0.00	0.00	1
accuracy			0.75	12
macro avg	0.75	0.79	0.73	12
weighted avg	0.83	0.75	0.74	12

Sentence: i <unk> like the cheapest cost fare to fort worth from boston
True tags: PRON AUX VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: PRON AUX VERB DET ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the cheapest one way fares from san diego to miami
True tags: VERB PRON DET ADJ NUM NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET ADJ ADJ NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	0.50	1.00	0.67	1
9	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.94	0.88	0.83	12
weighted avg	0.96	0.92	0.89	12

Sentence: what flights leave philadelphia for dallas and depart before noon on american airlines
True tags: DET NOUN VERB PROPN ADP PROPN CCONJ VERB ADP NOUN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB PROPN ADP PROPN CCONJ VERB ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.86	0.86	0.71	13
weighted avg	1.00	0.92	0.92	13

Sentence: i need a flight from cleveland to dallas that leaves before noon see if too much information
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NOUN VERB ADP ADV ADV NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NOUN NUM ADP DET ADJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.80	0.89	5
3	1.00	1.00	1.00	3
4	1.00	0.67	0.80	3
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
9	0.00	1.00	0.00	0
11	1.00	0.00	0.00	2
accuracy			0.76	17
macro avg	0.69	0.83	0.57	17
weighted avg	0.93	0.76	0.77	17

Sentence: list all flights leaving denver on continental on sunday after 2134
True tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP NUM
Predicted tags: VERB DET NOUN VERB PROPN ADP PROPN ADP NOUN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
9	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.91	11
macro avg	0.94	0.83	0.80	11
weighted avg	0.94	0.91	0.87	11

Sentence: all flights from san francisco to boston leaving before noon
True tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Predicted tags: DET NOUN ADP PROPN PROPN ADP PROPN VERB ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i need a flight from cincinnati to san jose leaving after 6 in the evening
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM ADP DET NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB ADP NUM ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15
weighted avg	1.00	1.00	1.00	15

Sentence: flights from milwaukee to orlando one way
True tags: NOUN ADP PROPN ADP PROPN NUM NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN NUM NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
9	1.00	1.00	1.00	1

```
    accuracy                        1.00        7
   macro avg       1.00     1.00     1.00        7
weighted avg       1.00     1.00     1.00        7
```

Sentence: i want to fly from baltimore to dallas round trip
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN NOUN NOUN
Predicted tags: PRON VERB VERB VERB ADP PROPN ADP PROPN NOUN NOUN
Classification Report:

```
          precision   recall  f1-score   support

       1      1.00     1.00     1.00        2
       2      1.00     1.00     1.00        2
       3      1.00     1.00     1.00        2
       4      0.67     1.00     0.80        2
       6      1.00     1.00     1.00        1
      12      1.00     0.00     0.00        1

    accuracy                        0.90       10
   macro avg       0.94     0.83     0.80       10
weighted avg       0.93     0.90     0.86       10
```

Sentence: hi i want a round trip ticket to dallas
True tags: INTJ PRON VERB DET NOUN NOUN NOUN ADP PROPN
Predicted tags: PRON PRON VERB DET NOUN NOUN NOUN ADP PROPN
Classification Report:

```
          precision   recall  f1-score   support

       1      1.00     1.00     1.00        1
       2      1.00     1.00     1.00        1
       3      1.00     1.00     1.00        3
       4      1.00     1.00     1.00        1
       5      1.00     1.00     1.00        1
       6      0.50     1.00     0.67        1
      13      1.00     0.00     0.00        1

    accuracy                        0.89        9
   macro avg       0.93     0.86     0.81        9
weighted avg       0.94     0.89     0.85        9
```

Sentence: what would be cost of a round trip from pittsburgh to san francisco
True tags: PRON AUX AUX NOUN ADP DET NOUN NOUN ADP PROPN ADP
PROPN PROPN
Predicted tags: PRON AUX AUX VERB ADP DET NOUN NOUN ADP PROPN ADP
PROPN PROPN
Classification Report:

```
          precision   recall  f1-score   support

       1      1.00     1.00     1.00        3
       2      1.00     1.00     1.00        3
```

	precision	recall	f1-score	support
3	1.00	0.67	0.80	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	2
accuracy			0.92	13
macro avg	0.86	0.95	0.83	13
weighted avg	1.00	0.92	0.95	13

Sentence: show me round trip fares from toronto to detroit on delta northwest us air and united airlines
True tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN PROPN PROPN CCONJ PROPN PROPN
Predicted tags: VERB PRON NOUN NOUN NOUN ADP PROPN ADP PROPN ADP PROPN PROPN PROPN PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	8
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: give me all the flights from new york to miami round trip
True tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN NOUN NOUN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN PROPN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: how much is a round trip fare from nashville to seattle

True tags: ADV ADV AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB AUX AUX DET NOUN NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
11	1.00	0.00	0.00	2
accuracy			0.82	11
macro avg	0.79	0.86	0.67	11
weighted avg	0.95	0.82	0.79	11

Sentence: what is the fare going from baltimore to boston one way on november seventh
True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN PROPN ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.96	0.89	0.87	14
weighted avg	0.95	0.93	0.90	14

Sentence: show me the round trip flights between phoenix and salt lake city
True tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: VERB PRON DET NOUN NOUN NOUN ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4

	precision	recall	f1-score	support
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what is the fare going from baltimore to atlanta one way on november seventh
True tags: PRON AUX DET NOUN VERB ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN PROPN ADP PROPN ADP PROPN NUM NOUN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
9	1.00	1.00	1.00	1
accuracy			0.93	14
macro avg	0.96	0.89	0.87	14
weighted avg	0.95	0.93	0.90	14

Sentence: now i want to see return flights from miami to new york
True tags: ADV PRON VERB PART VERB NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON VERB VERB VERB NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	2
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy		0.83	12	
macro avg	0.93	0.71	0.67	12
weighted avg	0.92	0.83	0.78	12

Sentence: do you have an <unk> flight from denver to san francisco
True tags: AUX PRON VERB DET NUM NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON PRON VERB DET ADJ NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
7	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
9	1.00	0.00	0.00	1
accuracy		0.82	11	
macro avg	0.83	0.78	0.63	11
weighted avg	0.95	0.82	0.79	11

Sentence: i would like to book a flight from chicago to seattle on june fourth
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy		0.93	14	
macro avg	0.97	0.89	0.87	14
weighted avg	0.95	0.93	0.90	14

Sentence: are there any flights from long beach to columbus on wednesday april sixth

True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like flights going from boston to atlanta leaving on august sixth in the afternoon
True tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN ADJ ADP DET NOUN
Predicted tags: PRON AUX VERB NOUN VERB ADP PROPN ADP PROPN VERB ADP NOUN ADJ ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: i would like to find out what flights there are on friday june eleventh from <unk> petersburg to milwaukee and then from milwaukee to tacoma thank you
True tags: PRON AUX VERB PART VERB ADV DET NOUN PRON VERB ADP NOUN NOUN ADJ ADP PROPN PROPN ADP PROPN CCONJ ADV ADP PROPN ADP PROPN VERB PRON
Predicted tags: PRON AUX VERB ADP VERB ADP DET NOUN PRON VERB ADP NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN CCONJ NUM ADP PROPN ADP PROPN VERB PRON
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	0.71	1.00	0.83	5
3	0.75	1.00	0.86	3
4	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	3
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.85	27
macro avg	0.87	0.75	0.64	27
weighted avg	0.92	0.85	0.81	27

Sentence: i need a flight from chicago to dallas on continental on june fifth
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i <unk> like a flight on july ninth from orlando to kansas city in the afternoon
True tags: PRON AUX VERB DET NOUN ADP NOUN ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP NOUN ADJ ADP PROPN ADP PROPN PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4

	precision	recall	f1-score	support
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: i <unk> like to arrange a trip to baltimore on january first
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP NOUN ADJ
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.92	12
macro avg	0.96	0.89	0.87	12
weighted avg	0.94	0.92	0.88	12

Sentence: okay and then from pittsburgh i <unk> like to travel to atlanta on september fourth
True tags: INTJ CCONJ ADV ADP PROPN PRON AUX VERB PART VERB ADP PROPN ADP NOUN ADJ
Predicted tags: VERB VERB VERB ADP PROPN PRON VERB ADP ADP VERB ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.60	1.00	0.75	3
3	1.00	1.00	1.00	1
4	0.20	0.50	0.29	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1

	precision	recall	f1-score	support
11	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.60	15
macro avg	0.89	0.50	0.46	15
weighted avg	0.81	0.60	0.52	15

Sentence: list the flights from westchester county to denver on june seventh
True tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: flights from atlanta august second
True tags: NOUN ADP PROPN NOUN ADJ
Predicted tags: NOUN ADP PROPN NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	2
7	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: what are the flights between pittsburgh and baltimore on august tenth
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN ADP NOUN ADJ
Predicted tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN ADP NOUN NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.89	0.89	0.78	11
weighted avg	1.00	0.91	0.91	11

Sentence: on april first i need a flight going from phoenix to san diego
True tags: ADP NOUN ADJ PRON VERB DET NOUN VERB ADP PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN DET PRON VERB DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
accuracy			0.92	13
macro avg	0.93	0.86	0.81	13
weighted avg	0.96	0.92	0.90	13

Sentence: show me a list of flights from denver to baltimore on united for august third
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
accuracy			1.00	15
macro avg	1.00	1.00	1.00	15

weighted avg   1.00   1.00   1.00   15

Sentence: what are the flights from san jose to nashville on thursday the twentieth
True tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ
Predicted tags: PRON AUX DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN DET ADJ
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i need a ticket from nashville to seattle
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: how much does it cost to fly on delta from dallas to baltimore
True tags: ADV ADV AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN
Predicted tags: VERB AUX AUX AUX VERB ADP VERB ADP PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.75	1.00	0.86	3
4	0.67	1.00	0.80	2

	precision	recall	f1-score	support
6	1.00	0.00	0.00	1
8	0.33	1.00	0.50	1
11	1.00	0.00	0.00	2
12	1.00	0.00	0.00	1
accuracy			0.69	13
macro avg	0.82	0.57	0.45	13
weighted avg	0.84	0.69	0.59	13

Sentence: what are the fares for flights from charlotte to newark on tuesday and wednesday
True tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP NOUN CCONJ NOUN
Predicted tags: PRON AUX DET NOUN ADP NOUN ADP PROPN ADP PROPN ADP NOUN CCONJ NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	14
macro avg	1.00	1.00	1.00	14
weighted avg	1.00	1.00	1.00	14

Sentence: show fares and flights from denver to oakland
True tags: VERB NOUN CCONJ NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
10	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.90	0.80	0.73	8
weighted avg	0.94	0.88	0.83	8

Sentence: what is the airfare between denver and pittsburgh
True tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what does it cost to fly from boston to oakland on united airlines
True tags: PRON AUX PRON VERB PART VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX AUX VERB ADP VERB ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.75	1.00	0.86	3
4	1.00	1.00	1.00	2
6	1.00	0.50	0.67	2
8	0.50	1.00	0.67	1
12	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.88	0.75	0.70	13
weighted avg	0.90	0.85	0.81	13

Sentence: get saturday fares from washington to montreal
True tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me fares from atlanta to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN

Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: continental airlines on saturday from chicago to seattle
True tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: does eastern airlines fly between boston and washington
True tags: AUX PROPN PROPN VERB ADP PROPN CCONJ PROPN
Predicted tags: PRON PROPN PROPN VERB ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.83	0.83	0.67	8
weighted avg	1.00	0.88	0.88	8

Sentence: i would like some information on a flight from denver to san francisco on united airlines
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN

Predicted tags: PRON AUX VERB AUX NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.50	0.67	2
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1
accuracy			0.94	16
macro avg	0.93	0.93	0.90	16
weighted avg	0.97	0.94	0.94	16

Sentence: american airlines from denver to milwaukee
True tags: PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i need a flight delta airlines kansas city to salt lake
True tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON VERB DET NOUN PROPN PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: list the alaska airlines flights a departing from burbank

True tags: VERB DET PROPN PROPN NOUN DET VERB ADP PROPN
Predicted tags: VERB DET NOUN PROPN NOUN DET ADJ ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	1
3	0.50	1.00	0.67	1
4	1.00	0.50	0.67	2
5	1.00	1.00	1.00	2
7	0.00	1.00	0.00	0
accuracy			0.78	9
macro avg	0.75	0.86	0.69	9
weighted avg	0.94	0.78	0.82	9

Sentence: give me all the flights from miami to chicago on american airlines
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: i <unk> like united airlines flights from denver to baltimore
True tags: PRON AUX VERB PROPN PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB PROPN PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10

macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: i <unk> like a flight from new york to los angeles on saturday morning on us air

True tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN

Predicted tags: PRON AUX VERB DET NOUN ADP PROPN PROPN ADP PROPN PROPN ADP NOUN NOUN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	6
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	17
macro avg	1.00	1.00	1.00	17
weighted avg	1.00	1.00	1.00	17

Sentence: show me the southwest airlines flights from san diego to san francisco

True tags: VERB PRON DET PROPN PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN

Predicted tags: VERB PRON DET NOUN PROPN NOUN ADP PROPN PROPN ADP PROPN PROPN

Classification Report:

	precision	recall	f1-score	support
1	1.00	0.83	0.91	6
2	1.00	1.00	1.00	2
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.92	12
macro avg	0.92	0.97	0.93	12
weighted avg	0.96	0.92	0.93	12

Sentence: what flights does american airlines have from boston to dallas

True tags: DET NOUN AUX PROPN PROPN VERB ADP PROPN ADP PROPN

Predicted tags: PRON NOUN AUX PROPN PROPN VERB ADP PROPN ADP PROPN

Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
8	1.00	1.00	1.00	1
accuracy			0.90	10
macro avg	0.86	0.86	0.71	10
weighted avg	1.00	0.90	0.90	10

Sentence: what flights go from chicago to seattle on continental airlines on saturday
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.83	0.83	0.67	12
weighted avg	1.00	0.92	0.92	12

Sentence: list the flights from dallas to san francisco on american airlines
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights go from chicago to seattle on saturday on continental airlines

True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN ADP NOUN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.92	12
macro avg	0.83	0.83	0.67	12
weighted avg	1.00	0.92	0.92	12

Sentence: show me the flight classes for delta airlines
True tags: VERB PRON DET NOUN NOUN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	1
3	1.00	0.50	0.67	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.94	0.92	0.91	8
weighted avg	0.92	0.88	0.87	8

Sentence: please list the flights from cincinnati to burbank on american airlines
True tags: INTJ VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.91	11

	precision	recall	f1-score	support
macro avg	0.92	0.83	0.78	11
weighted avg	0.95	0.91	0.88	11

Sentence: show me all the flights from indianapolis to san diego on us air
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	13
macro avg	1.00	1.00	1.00	13
weighted avg	1.00	1.00	1.00	13

Sentence: i would like to fly delta airlines from atlanta to pittsburgh
True tags: PRON AUX VERB PART VERB PROPN PROPN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB PROPN PROPN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.83	0.80	11
weighted avg	0.94	0.91	0.87	11

Sentence: what flights are available wednesday afternoon from denver to san francisco
True tags: DET NOUN AUX ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB ADJ NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.75	0.75	0.50	11
weighted avg	1.00	0.82	0.82	11

Sentence: show me all flights to philadelphia in the evening
True tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: flights from chicago to denver on continental on saturday morning
True tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights from san jose to dallas on friday afternoon
True tags: DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: what are the flights and prices from la to charlotte for monday morning
True tags: PRON AUX DET NOUN CCONJ NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN VERB PROPN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.75	0.86	4
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.85	13
macro avg	0.83	0.84	0.71	13
weighted avg	0.95	0.85	0.85	13

Sentence: on friday night i would like a flight from newark to los angeles
True tags: ADP NOUN NOUN PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: ADP NOUN PROPN PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.92	13
macro avg	0.96	0.95	0.95	13
weighted avg	0.94	0.92	0.92	13

Sentence: <unk> paul to kansas city friday night
True tags: PROPN PROPN ADP PROPN PROPN NOUN NOUN
Predicted tags: VERB PROPN ADP PROPN PROPN NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	0.75	0.75	4
2	1.00	1.00	1.00	1
3	1.00	0.50	0.67	2
4	0.00	1.00	0.00	0
accuracy			0.71	7
macro avg	0.69	0.81	0.60	7
weighted avg	0.86	0.71	0.76	7

Sentence: show me the flights from philadelphia to baltimore in the morning
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: what flights from chicago to denver in the morning
True tags: DET NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	0.50	0.67	2
6	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.80	0.90	0.73	9
weighted avg	1.00	0.89	0.93	9

Sentence: now i need a flight from detroit to san diego leaving tuesday evening
True tags: ADV PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB NOUN NOUN
Predicted tags: VERB PRON VERB DET NOUN ADP PROPN ADP PROPN PROPN VERB NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy		0.92	13
macro avg	0.95	0.86	0.83	13
weighted avg	0.95	0.92	0.89	13

Sentence: how about flights from dallas to atlanta on wednesday morning
True tags: ADV ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: VERB ADP NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
accuracy		0.90	10
macro avg	0.80	0.80	0.60	10
weighted avg	1.00	0.90	0.90	10

Sentence: show me the evening flights from baltimore to atlanta
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy		1.00	9

```
    macro avg      1.00    1.00    1.00      9
 weighted avg       1.00    1.00    1.00       9
```

Sentence: which flights go from pittsburgh to atlanta in the evening
True tags: DET NOUN VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: DET NOUN VERB ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

```
            precision   recall  f1-score   support

       1      1.00     1.00     1.00        2
       2      1.00     1.00     1.00        3
       3      1.00     1.00     1.00        2
       4      1.00     1.00     1.00        1
       5      1.00     1.00     1.00        2

 accuracy                       1.00       10
 macro avg      1.00     1.00     1.00       10
 weighted avg    1.00     1.00     1.00        10
```

Sentence: from toronto to atlanta in the afternoon
True tags: ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

```
            precision   recall  f1-score   support

       1      1.00     1.00     1.00        2
       2      1.00     1.00     1.00        3
       3      1.00     1.00     1.00        1
       5      1.00     1.00     1.00        1

 accuracy                       1.00        7
 macro avg      1.00     1.00     1.00        7
 weighted avg    1.00     1.00     1.00        7
```

Sentence: i need to fly from pittsburgh to oakland and depart in the afternoon
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN CCONJ VERB
ADP DET NOUN
Predicted tags: PRON VERB VERB VERB ADP PROPN ADP PROPN VERB VERB
ADP DET NOUN
Classification Report:

```
            precision   recall  f1-score   support

       1      1.00     1.00     1.00        2
       2      1.00     1.00     1.00        3
       3      1.00     1.00     1.00        1
       4      0.60     1.00     0.75        3
       5      1.00     1.00     1.00        1
       6      1.00     1.00     1.00        1
      10      1.00     0.00     0.00        1
      12      1.00     0.00     0.00        1
```

		accuracy		0.85	13	
	macro avg	0.95	0.75	0.72	13	
	weighted avg	0.91	0.85	0.79	13	

Sentence: i need a flight from los angeles to pittsburgh on monday afternoon
True tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON VERB DET NOUN ADP PROPN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: show me the evening flights from atlanta to boston
True tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i need to know what flights leave atlanta on sunday evening and arrive in baltimore
True tags: PRON VERB PART VERB DET NOUN VERB PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN
Predicted tags: PRON VERB VERB VERB DET NOUN VERB PROPN ADP NOUN NOUN CCONJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	0.80	1.00	0.89	4
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.97	0.88	0.86	15
weighted avg	0.95	0.93	0.90	15

Sentence: what flights are there from boston to denver on monday morning
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON NOUN VERB PRON ADP PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
accuracy			0.91	11
macro avg	0.92	0.83	0.78	11
weighted avg	0.95	0.91	0.88	11

Sentence: give me morning flights from atlanta to baltimore
True tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flights from atlanta to dallas in the afternoon
True tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: NOUN ADP PROPN ADP PROPN ADP DET NOUN

Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: morning flights from pittsburgh to atlanta on wednesday
True tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	3
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what are the flights dallas to boston on monday morning
True tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN PROPN ADP PROPN ADP NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: am flights from atlanta to philadelphia
True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: tampa to charlotte sunday morning
True tags: PROPN ADP PROPN NOUN NOUN
Predicted tags: NOUN ADP PROPN NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.50	0.67	2
2	1.00	1.00	1.00	1
3	0.67	1.00	0.80	2
accuracy			0.80	5
macro avg	0.89	0.83	0.82	5
weighted avg	0.87	0.80	0.79	5

Sentence: show flights saturday evening from <unk> louis to burbank
True tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN NOUN NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what pm flights are available from philadelphia to pittsburgh
True tags: DET NOUN NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN NOUN VERB ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.78	9
macro avg	0.75	0.75	0.50	9
weighted avg	1.00	0.78	0.78	9

Sentence: what are the flights from milwaukee to orlando on wednesday night
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN NOUN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	1.00	1.00	3
3	1.00	0.67	0.80	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.94	0.94	0.93	11
weighted avg	0.94	0.91	0.91	11

Sentence: show me the flights from san francisco to dallas
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show flights from san francisco to denver on a thursday
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1

```
           5     1.00     1.00     1.00       1

    accuracy                     1.00      10
   macro avg     1.00     1.00     1.00      10
weighted avg       1.00     1.00     1.00       10
```

Sentence: from las vegas to phoenix
True tags: ADP PROPN PROPN ADP PROPN
Predicted tags: ADP PROPN PROPN ADP PROPN
Classification Report:

```
           precision   recall  f1-score   support

        1     1.00     1.00     1.00       3
        2     1.00     1.00     1.00       2

    accuracy                     1.00       5
   macro avg     1.00     1.00     1.00       5
weighted avg       1.00     1.00     1.00        5
```

Sentence: show me all flights from san diego to los angeles
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
PROPN
Classification Report:

```
           precision   recall  f1-score   support

        1     1.00     1.00     1.00       4
        2     1.00     1.00     1.00       2
        3     1.00     1.00     1.00       1
        4     1.00     1.00     1.00       1
        5     1.00     1.00     1.00       1
        6     1.00     1.00     1.00       1

    accuracy                     1.00      10
   macro avg     1.00     1.00     1.00      10
weighted avg       1.00     1.00     1.00       10
```

Sentence: show flights from kansas city to minneapolis
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

```
           precision   recall  f1-score   support

        1     1.00     1.00     1.00       3
        2     1.00     1.00     1.00       2
        3     1.00     1.00     1.00       1
        4     1.00     1.00     1.00       1

    accuracy                     1.00       7
   macro avg     1.00     1.00     1.00       7
```

weighted avg   1.00   1.00   1.00   7

Sentence: list flights from las vegas to phoenix
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: flights from las vegas to montreal
True tags: NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i am also interested in a flight that <unk> from <unk> louis to las vegas
True tags: PRON AUX ADV VERB ADP DET NOUN ADP VERB ADP PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON AUX NOUN VERB ADP DET NOUN PROPN VERB ADP PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.80	1.00	0.89	4
2	1.00	0.75	0.86	4
3	0.50	1.00	0.67	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.87	15
macro avg	0.91	0.84	0.80	15

weighted avg   0.91   0.87   0.84   15

Sentence: <unk> petersburg to detroit
True tags: PROPN PROPN ADP PROPN
Predicted tags: VERB PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	0.67	0.80	3
2	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
accuracy			0.75	4
macro avg	0.67	0.89	0.60	4
weighted avg	1.00	0.75	0.85	4

Sentence: show me flights from san francisco to minneapolis
True tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights from salt lake city to las vegas
True tags: DET NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	5
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.89	9
macro avg	0.80	0.80	0.60	9
weighted avg	1.00	0.89	0.89	9

Sentence: show me all flights from san francisco to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN

Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: do you have flights from <unk> petersburg to toronto on monday
True tags: AUX PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Predicted tags: PRON PRON VERB NOUN ADP PROPN PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
6	0.50	1.00	0.67	1
8	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.92	0.83	0.78	11
weighted avg	0.95	0.91	0.88	11

Sentence: what are all the flights on delta in and out of fort worth
True tags: PRON AUX DET DET NOUN ADP PROPN ADP CCONJ ADP ADP PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADP PROPN ADP CCONJ PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	0.75	0.86	4
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1

```
        accuracy                    0.92      13
       macro avg     0.96   0.96   0.96      13
    weighted avg      0.94   0.92   0.92      13


Sentence: show flights from <unk> petersburg to charlotte
True tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN PROPN ADP PROPN
Classification Report:
            precision   recall  f1-score   support

        1     1.00     1.00     1.00        3
        2     1.00     1.00     1.00        2
        3     1.00     1.00     1.00        1
        4     1.00     1.00     1.00        1

    accuracy                    1.00       7
   macro avg     1.00   1.00   1.00       7
weighted avg      1.00   1.00   1.00       7


Sentence: i <unk> like flight information from dallas fort worth to boston on tuesday
True tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP
PROPN ADP NOUN
Predicted tags: PRON AUX VERB NOUN NOUN ADP PROPN PROPN PROPN ADP
PROPN ADP NOUN
Classification Report:
            precision   recall  f1-score   support

        1     1.00     1.00     1.00        4
        2     1.00     1.00     1.00        3
        3     1.00     1.00     1.00        3
        4     1.00     1.00     1.00        1
        6     1.00     1.00     1.00        1
        8     1.00     1.00     1.00        1

    accuracy                    1.00      13
   macro avg     1.00   1.00   1.00      13
weighted avg      1.00   1.00   1.00      13


Sentence: show me all flights from san francisco to pittsburgh on friday
True tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP
NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN PROPN ADP PROPN ADP
NOUN
Classification Report:
            precision   recall  f1-score   support

        1     1.00     1.00     1.00        3
        2     1.00     1.00     1.00        3
        3     1.00     1.00     1.00        2
        4     1.00     1.00     1.00        1
```

```
            5       1.00      1.00      1.00        1
            6       1.00      1.00      1.00        1

    accuracy                           1.00       11
   macro avg        1.00      1.00      1.00       11
weighted avg        1.00      1.00      1.00       11
```

Sentence: from las vegas to montreal
True tags: ADP PROPN PROPN ADP PROPN
Predicted tags: ADP PROPN PROPN ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

            1       1.00      1.00      1.00        3
            2       1.00      1.00      1.00        2

    accuracy                           1.00        5
   macro avg        1.00      1.00      1.00        5
weighted avg        1.00      1.00      1.00        5
```

Sentence: sunday flights from new york city to las vegas
True tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Predicted tags: NOUN NOUN ADP PROPN PROPN PROPN ADP PROPN PROPN
Classification Report:

```
            precision   recall  f1-score   support

            1       1.00      1.00      1.00        5
            2       1.00      1.00      1.00        2
            3       1.00      1.00      1.00        2

    accuracy                           1.00        9
   macro avg        1.00      1.00      1.00        9
weighted avg        1.00      1.00      1.00        9
```

Sentence: please find a flight from kansas city to newark
True tags: INTJ VERB DET NOUN ADP PROPN PROPN ADP PROPN
Predicted tags: VERB VERB DET NOUN ADP PROPN PROPN ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

            1       1.00      1.00      1.00        3
            2       1.00      1.00      1.00        2
            3       1.00      1.00      1.00        1
            4       0.50      1.00      0.67        1
            5       1.00      1.00      1.00        1
           13       1.00      0.00      0.00        1

    accuracy                           0.89        9
   macro avg        0.92      0.83      0.78        9
weighted avg        0.94      0.89      0.85        9
```

Sentence: i want to go from san francisco to denver
True tags: PRON VERB PART VERB ADP PROPN PROPN ADP PROPN
Predicted tags: PRON VERB VERB VERB ADP PROPN PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.93	0.80	0.76	9
weighted avg	0.93	0.89	0.84	9

Sentence: list all flights on continental leaving denver on monday
True tags: VERB DET NOUN ADP PROPN VERB PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN VERB PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: only show continental flights
True tags: ADV VERB PROPN NOUN
Predicted tags: VERB VERB PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
11	1.00	0.00	0.00	1
accuracy			0.75	4
macro avg	0.88	0.75	0.67	4
weighted avg	0.88	0.75	0.67	4

Sentence: find a flight on delta from philadelphia to san francisco
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN

Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: all delta flights to <unk> if you can
True tags: DET PROPN NOUN ADP NOUN ADP PRON AUX
Predicted tags: DET PROPN NOUN ADP PROPN PROPN PRON VERB
Classification Report:

	precision	recall	f1-score	support
1	0.33	1.00	0.50	1
2	1.00	0.50	0.67	2
3	1.00	0.50	0.67	2
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.62	8
macro avg	0.76	0.71	0.55	8
weighted avg	0.92	0.62	0.65	8

Sentence: show me all the flights from toronto on nationair
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: show me all the united flights from boston to denver

True tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all the flights on united leaving from boston
True tags: VERB PRON DET DET NOUN ADP PROPN VERB ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: when are the american flights from phoenix to milwaukee
True tags: ADV AUX DET PROPN NOUN ADP PROPN ADP PROPN
Predicted tags: VERB VERB DET PROPN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
5	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
11	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.86	0.71	0.57	9
weighted avg	1.00	0.78	0.78	9

Sentence: please list all united flights between pittsburgh and baltimore
True tags: INTJ VERB DET PROPN NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB VERB DET PROPN NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.93	0.86	0.81	9
weighted avg	0.94	0.89	0.85	9

Sentence: please list all flights between boston and philadelphia <unk> on sundays
True tags: INTJ VERB DET NOUN ADP PROPN CCONJ PROPN VERB ADP
PROPN
Predicted tags: VERB VERB DET NOUN ADP PROPN CCONJ PROPN PROPN
ADP NUM
Classification Report:

	precision	recall	f1-score	support
1	0.67	0.67	0.67	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	0.50	0.50	2
5	1.00	1.00	1.00	1
9	0.00	1.00	0.00	0
10	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.73	11
macro avg	0.77	0.77	0.65	11
weighted avg	0.82	0.73	0.73	11

Sentence: list all flights from baltimore to san francisco on friday
True tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me flights from philadelphia to denver on a monday
True tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me the flights from denver to atlanta on friday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: flights that go from oakland to philadelphia on friday
True tags: NOUN ADP VERB ADP PROPN ADP PROPN ADP NOUN
Predicted tags: NOUN NOUN VERB ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	0.75	0.86	4
3	0.67	1.00	0.80	2
4	1.00	1.00	1.00	1

	precision	recall	f1-score	support
accuracy			0.89	9
macro avg	0.92	0.94	0.91	9
weighted avg	0.93	0.89	0.89	9

Sentence: baltimore to philadelphia wednesday
True tags: PROPN ADP PROPN NOUN
Predicted tags: PROPN ADP PROPN NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
accuracy			1.00	4
macro avg	1.00	1.00	1.00	4
weighted avg	1.00	1.00	1.00	4

Sentence: i <unk> like a flight from montreal to san diego for sunday
True tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights are available friday from philadelphia to oakland
True tags: DET NOUN AUX ADJ NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADJ NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1

	precision	recall	f1-score	support
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.75	0.75	0.50	9
weighted avg	1.00	0.78	0.78	9

Sentence: i would like to see the flights available from pittsburgh to san francisco for monday
True tags: PRON AUX VERB PART VERB DET NOUN ADJ ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADJ ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.75	1.00	0.86	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.93	15
macro avg	0.97	0.89	0.87	15
weighted avg	0.95	0.93	0.90	15

Sentence: show me the flights on sunday from tampa to charlotte
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what are all flights from denver to philadelphia on saturday
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN

Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: what flights are available from denver to philadelphia on wednesday
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN ADP NOUN
Predicted tags: PRON NOUN VERB ADJ ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.75	0.75	0.50	10
weighted avg	1.00	0.80	0.80	10

Sentence: i want to go from boston to washington on a saturday
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN ADP DET NOUN
Predicted tags: PRON VERB VERB VERB ADP PROPN ADP PROPN ADP DET NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.91	11

	precision	recall	f1-score	support
macro avg	0.95	0.86	0.83	11
weighted avg	0.94	0.91	0.87	11

Sentence: show flights from burbank to <unk> louis on monday
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: please show me flights from dallas to atlanta on monday
True tags: INTJ VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB VERB PRON NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.90	10
macro avg	0.92	0.83	0.78	10
weighted avg	0.95	0.90	0.87	10

Sentence: show me the flights from pittsburgh to los angeles on thursday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

		precision	recall	f1-score	support
accuracy				1.00	11
macro avg		1.00	1.00	1.00	11
weighted avg		1.00	1.00	1.00	11

Sentence: i <unk> like a list of the flights from oakland to dallas fort worth on sunday
True tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADP NOUN
Predicted tags: PRON AUX VERB DET NOUN ADP DET NOUN ADP PROPN ADP PROPN PROPN PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	4
3	1.00	1.00	1.00	3
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	16
macro avg	1.00	1.00	1.00	16
weighted avg	1.00	1.00	1.00	16

Sentence: show me the flights from boston to pittsburgh on wednesday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: list all flights from nashville to cleveland on sunday
True tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me a flight from tampa to charlotte on sunday
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP NOUN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show flights from denver to san francisco
True tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what are all the flights available between pittsburgh and dallas fort worth
True tags: PRON AUX DET DET NOUN ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: PRON AUX DET DET NOUN ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	12
macro avg	1.00	1.00	1.00	12
weighted avg	1.00	1.00	1.00	12

Sentence: what flights from seattle to salt lake city
True tags: DET NOUN ADP PROPN ADP PROPN PROPN PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.88	8
macro avg	0.80	0.80	0.60	8
weighted avg	1.00	0.88	0.88	8

Sentence: what are the flights from memphis to las vegas
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights are there from pittsburgh to los angeles
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN VERB PRON ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3

	precision	recall	f1-score	support
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
accuracy			0.89	9
macro avg	0.92	0.83	0.78	9
weighted avg	0.94	0.89	0.85	9

Sentence: i <unk> looking for a flight from pittsburgh to san francisco
True tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	11
macro avg	1.00	1.00	1.00	11
weighted avg	1.00	1.00	1.00	11

Sentence: show me the flights from dallas to san francisco
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what are the flights from boston to san francisco
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights do you have leaving boston going to san francisco
True tags: DET NOUN AUX PRON VERB VERB PROPN VERB ADP PROPN PROPN
Predicted tags: PRON NOUN AUX PRON VERB VERB PROPN VERB ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	3
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
8	1.00	1.00	1.00	1
accuracy			0.91	11
macro avg	0.93	0.86	0.81	11
weighted avg	0.95	0.91	0.88	11

Sentence: list all flights please from washington to san francisco
True tags: VERB DET NOUN INTJ ADP PROPN ADP PROPN PROPN
Predicted tags: VERB DET NOUN VERB ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
13	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.92	0.83	0.78	9
weighted avg	0.94	0.89	0.85	9

Sentence: list flights between oakland and san francisco
True tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: interested in a flight from washington to fort worth
True tags: VERB ADP DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PROPN ADP DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.75	1.00	0.86	3
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	1
accuracy			0.89	9
macro avg	0.95	0.80	0.77	9
weighted avg	0.92	0.89	0.84	9

Sentence: what flights are <unk> available between boston and dallas fort worth
True tags: DET NOUN AUX ADV ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Predicted tags: PRON NOUN VERB VERB ADJ ADP PROPN CCONJ PROPN PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	4
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1

	precision	recall	f1-score	support
accuracy			0.73	11
macro avg	0.80	0.70	0.50	11
weighted avg	1.00	0.73	0.73	11

Sentence: what about flights from boston to san diego
True tags: PRON ADP NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: PRON NOUN NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	0.67	0.80	3
3	0.50	1.00	0.67	1
6	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.88	0.92	0.87	8
weighted avg	0.94	0.88	0.88	8

Sentence: flights from baltimore to san francisco
True tags: NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: i live in washington and i would like to make a trip to san francisco can you tell me which airlines connect with those two cities
True tags: PRON VERB ADP PROPN CCONJ PRON AUX VERB PART VERB DET NOUN ADP PROPN PROPN AUX PRON VERB PRON DET NOUN VERB ADP DET NUM NOUN
Predicted tags: PRON VERB ADP PROPN VERB PRON AUX ADP ADP VERB DET NOUN ADP PROPN PROPN VERB PRON VERB PRON ADJ NOUN VERB ADP NOUN VERB VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	0.60	1.00	0.75	3
3	0.67	0.67	0.67	3
4	0.50	0.80	0.62	5
5	1.00	0.33	0.50	3

	precision	recall	f1-score	support
6	1.00	1.00	1.00	4
7	0.00	1.00	0.00	0
8	1.00	0.50	0.67	2
9	1.00	0.00	0.00	1
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.69	26
macro avg	0.80	0.57	0.47	26
weighted avg	0.82	0.69	0.66	26

Sentence: show me the flights from detroit to las vegas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	3
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: what flights go from denver to atlanta
True tags: DET NOUN VERB ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.86	7
macro avg	0.83	0.83	0.67	7
weighted avg	1.00	0.86	0.86	7

Sentence: show me the flights from montreal to philly
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	1.00	1.00	1.00	2
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: flight from denver to philadelphia
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: give me the flights from baltimore to pittsburgh
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1

accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i would like to fly from boston to baltimore
True tags: PRON AUX VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2

	precision	recall	f1-score	support
2	0.67	1.00	0.80	2
4	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.89	9
macro avg	0.94	0.83	0.80	9
weighted avg	0.93	0.89	0.84	9

Sentence: tell me the flights that leave philadelphia and go to dallas
True tags: VERB PRON DET NOUN ADP VERB PROPN CCONJ VERB ADP PROPN
Predicted tags: VERB PRON DET NOUN PROPN VERB PROPN VERB VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	0.67	1.00	0.80	2
2	1.00	0.50	0.67	2
3	1.00	1.00	1.00	1
4	0.75	1.00	0.86	3
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
accuracy			0.82	11
macro avg	0.92	0.79	0.76	11
weighted avg	0.87	0.82	0.77	11

Sentence: flight information from oakland to denver
True tags: NOUN NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: the flight will <unk> from boston
True tags: DET NOUN AUX VERB ADP PROPN
Predicted tags: DET NOUN ADJ VERB ADP PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
7	0.00	1.00	0.00	0
8	1.00	0.00	0.00	1
accuracy			0.83	6
macro avg	0.86	0.86	0.71	6
weighted avg	1.00	0.83	0.83	6

Sentence: what are the flights from pittsburgh to oakland
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: what flights are there from baltimore to newark
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
accuracy			0.88	8
macro avg	0.92	0.83	0.78	8
weighted avg	0.94	0.88	0.83	8

Sentence: flights from columbus to milwaukee
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
accuracy			1.00	5
macro avg	1.00	1.00	1.00	5
weighted avg	1.00	1.00	1.00	5

Sentence: i <unk> like information on boston to washington
True tags: PRON AUX VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: list flights from houston to phoenix
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: information of a flight from atlanta to pittsburgh
True tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3

	precision	recall	f1-score	support
3	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i need to go to pittsburgh and denver
True tags: PRON VERB PART VERB ADP PROPN CCONJ PROPN
Predicted tags: PRON VERB VERB VERB ADP PROPN VERB PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
4	0.50	1.00	0.67	2
6	1.00	1.00	1.00	1
10	1.00	0.00	0.00	1
12	1.00	0.00	0.00	1
accuracy			0.75	8
macro avg	0.92	0.67	0.61	8
weighted avg	0.88	0.75	0.67	8

Sentence: what flights from philadelphia to atlanta
True tags: DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
accuracy			0.83	6
macro avg	0.80	0.80	0.60	6
weighted avg	1.00	0.83	0.83	6

Sentence: flight from milwaukee to denver
True tags: NOUN ADP PROPN ADP PROPN
Predicted tags: NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

```
   accuracy                    1.00      5
  macro avg     1.00    1.00    1.00      5
weighted avg    1.00    1.00    1.00      5
```

Sentence: tell me the flights from baltimore to dallas
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN
Classification Report:

```
          precision   recall  f1-score   support

     1      1.00      1.00      1.00        2
     2      1.00      1.00      1.00        2
     3      1.00      1.00      1.00        1
     4      1.00      1.00      1.00        1
     5      1.00      1.00      1.00        1
     6      1.00      1.00      1.00        1

   accuracy                    1.00        8
  macro avg    1.00     1.00     1.00        8
weighted avg   1.00     1.00     1.00        8
```

Sentence: i <unk> like to book a flight from atlanta to denver
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

```
          precision   recall  f1-score   support

     1      1.00      1.00      1.00        2
     2      0.67      1.00      0.80        2
     3      1.00      1.00      1.00        1
     4      1.00      1.00      1.00        2
     5      1.00      1.00      1.00        1
     6      1.00      1.00      1.00        1
     8      1.00      1.00      1.00        1
    12      1.00      0.00      0.00        1

   accuracy                    0.91       11
  macro avg    0.96     0.88     0.85       11
weighted avg   0.94     0.91     0.87       11
```

Sentence: now get me from pittsburgh to denver
True tags: ADV VERB PRON ADP PROPN ADP PROPN
Predicted tags: VERB VERB PRON ADP PROPN ADP PROPN
Classification Report:

```
          precision   recall  f1-score   support

     1      1.00      1.00      1.00        2
     2      1.00      1.00      1.00        2
     4      0.50      1.00      0.67        1
```

	precision	recall	f1-score	support
6	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.86	7
macro avg	0.90	0.80	0.73	7
weighted avg	0.93	0.86	0.81	7

Sentence: what flights are there from boston to dallas
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
accuracy			0.88	8
macro avg	0.92	0.83	0.78	8
weighted avg	0.94	0.88	0.83	8

Sentence: show me flights from pittsburgh to philadelphia
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: show flights from philadelphia to boston
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1

```
       accuracy                    1.00      6
      macro avg      1.00    1.00    1.00       6
   weighted avg       1.00    1.00    1.00        6
```

Sentence: i <unk> like to see flights from pittsburgh to philadelphia
True tags: PRON AUX VERB PART VERB NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB NOUN ADP PROPN ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

       1     1.00     1.00     1.00        2
       2     0.67     1.00     0.80        2
       3     1.00     1.00     1.00        1
       4     1.00     1.00     1.00        2
       6     1.00     1.00     1.00        1
       8     1.00     1.00     1.00        1
      12      1.00     0.00     0.00        1

   accuracy                    0.90       10
  macro avg      0.95     0.86     0.83       10
weighted avg       0.93     0.90     0.86       10
```

Sentence: give me flights from pittsburgh to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

       1     1.00     1.00     1.00        2
       2     1.00     1.00     1.00        2
       3     1.00     1.00     1.00        1
       4     1.00     1.00     1.00        1
       6     1.00     1.00     1.00        1

   accuracy                    1.00        7
  macro avg      1.00     1.00     1.00        7
weighted avg       1.00     1.00     1.00        7
```

Sentence: i need to go from philadelphia to dallas
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB VERB VERB ADP PROPN ADP PROPN
Classification Report:

```
            precision   recall  f1-score   support

       1     1.00     1.00     1.00        2
       2     1.00     1.00     1.00        2
       4     0.67     1.00     0.80        2
       6     1.00     1.00     1.00        1
      12      1.00     0.00     0.00        1
```

	precision	recall	f1-score	support
accuracy			0.88	8
macro avg	0.93	0.80	0.76	8
weighted avg	0.92	0.88	0.82	8

Sentence: show flights from pittsburgh to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: what are the flights from chicago to indianapolis
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: get flights from toronto to milwaukee
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6

weighted avg   1.00   1.00   1.00   6

Sentence: what are the different classes that an airline offers
True tags: PRON AUX DET ADJ NOUN ADP DET NOUN VERB
Predicted tags: PRON AUX DET NOUN PROPN PROPN DET NOUN NOUN
Classification Report:

	precision	recall	f1-score	support
1	0.00	1.00	0.00	0
2	1.00	0.00	0.00	1
3	0.33	0.50	0.40	2
4	1.00	0.00	0.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
8	1.00	1.00	1.00	1
accuracy			0.56	9
macro avg	0.79	0.56	0.42	9
weighted avg	0.85	0.56	0.53	9

Sentence: show flights between boston and denver
True tags: VERB NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6

Sentence: show flights from dallas to oakland
True tags: VERB NOUN ADP PROPN ADP PROPN
Predicted tags: VERB NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6

weighted avg   1.00   1.00   1.00   6

Sentence: show me flights from baltimore to dallas
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me all the flights from memphis to charlotte
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: i would like to see the flights from baltimore to philadelphia please
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN INTJ
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN VERB
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	0.67	1.00	0.80	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1

	precision	recall	f1-score	support
12	1.00	0.00	0.00	1
13	1.00	0.00	0.00	1
accuracy			0.83	12
macro avg	0.93	0.78	0.73	12
weighted avg	0.89	0.83	0.77	12

Sentence: what flights are there from indianapolis to orlando
True tags: DET NOUN VERB PRON ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB PRON ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
accuracy			0.88	8
macro avg	0.92	0.83	0.78	8
weighted avg	0.94	0.88	0.83	8

Sentence: no i want to go from denver to oakland
True tags: DET PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: VERB PRON VERB VERB VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	0.50	1.00	0.67	2
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.78	9
macro avg	0.92	0.67	0.61	9
weighted avg	0.89	0.78	0.70	9

Sentence: show me flights from milwaukee to orlando
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1

	precision	recall	f1-score	support
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: give me a list of flights between denver and oakland
True tags: VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
accuracy			1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

Sentence: show me all the flights from charlotte to cleveland
True tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON DET DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	2
6	1.00	1.00	1.00	1
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9

Sentence: give me flights from denver to baltimore
True tags: VERB PRON NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2

	precision	recall	f1-score	support
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	7
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: tell me about flights from indianapolis to houston
True tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Predicted tags: VERB PRON ADP NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	3
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: oakland to philadelphia
True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: what are your flights from denver to baltimore
True tags: PRON AUX DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX AUX NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	1.00	1.00	1.00	1
8	0.50	1.00	0.67	1

	precision	recall	f1-score	support
accuracy		0.88	8	
macro avg	0.92	0.83	0.78	8
weighted avg	0.94	0.88	0.83	8

Sentence: list all flights from baltimore to philadelphia
True tags: VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
accuracy		1.00	7	
macro avg	1.00	1.00	1.00	7
weighted avg	1.00	1.00	1.00	7

Sentence: what flights are available from boston to dallas
True tags: DET NOUN AUX ADJ ADP PROPN ADP PROPN
Predicted tags: PRON NOUN VERB ADJ ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	0.00	1.00	0.00	0
5	1.00	0.00	0.00	1
6	0.00	1.00	0.00	0
7	1.00	1.00	1.00	1
8	1.00	0.00	0.00	1
accuracy		0.75	8	
macro avg	0.75	0.75	0.50	8
weighted avg	1.00	0.75	0.75	8

Sentence: i would like to see all flights from denver to philadelphia
True tags: PRON AUX VERB PART VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON AUX VERB ADP VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	0.67	1.00	0.80	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2

	precision	recall	f1-score	support
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
8	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.96	0.88	0.85	11
weighted avg	0.94	0.91	0.87	11

Sentence: atlanta to pittsburgh
True tags: PROPN ADP PROPN
Predicted tags: PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
accuracy			1.00	3
macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

Sentence: give me a flight from baltimore to newark that arrives as early as possible
True tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP ADV ADP ADJ
Predicted tags: VERB PRON DET NOUN ADP PROPN ADP PROPN ADP VERB ADP NUM ADP NUM
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	5
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	2
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
7	1.00	0.00	0.00	1
9	0.00	1.00	0.00	0
11	1.00	0.00	0.00	1
accuracy			0.86	14
macro avg	0.89	0.78	0.67	14
weighted avg	1.00	0.86	0.86	14

Sentence: what flights are there between atlanta and denver
True tags: DET NOUN VERB PRON ADP PROPN CCONJ PROPN
Predicted tags: PRON NOUN VERB PRON ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	1
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	0.00	0.00	1
6	0.50	1.00	0.67	1
10	1.00	1.00	1.00	1
accuracy			0.88	8
macro avg	0.93	0.86	0.81	8
weighted avg	0.94	0.88	0.83	8

Sentence: i need a flight from phoenix to atlanta
True tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Predicted tags: PRON VERB DET NOUN ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	1
4	1.00	1.00	1.00	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
accuracy			1.00	8
macro avg	1.00	1.00	1.00	8
weighted avg	1.00	1.00	1.00	8

Sentence: i want to fly from atlanta to philadelphia
True tags: PRON VERB PART VERB ADP PROPN ADP PROPN
Predicted tags: PRON VERB VERB VERB ADP PROPN ADP PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
4	0.67	1.00	0.80	2
6	1.00	1.00	1.00	1
12	1.00	0.00	0.00	1
accuracy			0.88	8
macro avg	0.93	0.80	0.76	8
weighted avg	0.92	0.88	0.82	8

Sentence: also give me a list of flights between oakland and boston
True tags: ADV VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Predicted tags: VERB VERB PRON DET NOUN ADP NOUN ADP PROPN CCONJ PROPN
Classification Report:

	precision	recall	f1-score	support
1	1.00	1.00	1.00	2
2	1.00	1.00	1.00	2
3	1.00	1.00	1.00	2
4	0.50	1.00	0.67	1
5	1.00	1.00	1.00	1
6	1.00	1.00	1.00	1
10	1.00	1.00	1.00	1
11	1.00	0.00	0.00	1
accuracy			0.91	11
macro avg	0.94	0.88	0.83	11
weighted avg	0.95	0.91	0.88	11

Average Loss: 0.3366
Average Accuracy: 90.15 %