67-212 NLP with Python

Fall 2021

Assignment 2 Rubric

CRITERIA	MEETS SPECIFICATIONS
Submission includes all files required for grading	 Includes HMM Tagger.ipynb displaying output for all executed cells Includes HMM Tagger.html, which is an HTML copy of the notebook showing the output from executing all cells
Submitted files are complete and do not include any disallowed	Submitted notebook has made no changes to test case assertions
changes	

CRITERIA	MEETS SPECIFICATIONS
Student correctly implements the pair_counts() function	Emission count test case assertions all pass.
	The emission counts dictionary has 12 keys, one for each of the tags in the universal tagset time" is the most common word tagged as a NOUN
Correct baseline MFC tagger implementation	Baseline MFC tagger passes all test case assertions and produces the expected accuracy using the universal tagset.
	 >95.5% accuracy on the training sentences 93% accuracy the test sentences

CRITERIA	MEETS SPECIFICATIONS
Correct unigram_counts()	All unigram test case assertions pass
implementation	
Correct bigram_counts() implementation	All bigram test case assertions pass
Correct start_counts() and end_counts() implementation	All start and end count test case assertions pass

CRITERIA	MEETS SPECIFICATIONS
Correct HMM network construction	All model topology test case assertions pass
Correct basic HMM tagger implementation	Basic HMM tagger passes all assertion test cases and produces the expected accuracy using the universal tagset. • >97% accuracy on the training sentences • >95.5% accuracy the test sentences