Notebook

May 31, 2025

1 INTRODUCTION TO THE PROBLEM AND DATASET

1.1 PROBLEM STATEMENT

Social media platforms generate massive amounts of textual data daily, with users sharing thoughts, opinions, and news in real time. However, extracting meaningful insights from this unstructured data is challenging, especially when users do not follow a standardized format. Many users **avoid using hashtags**, use **misspelled or incorrect tags**, or post without explicit context, making it difficult to track trends, identify topics, or categorize content accurately.

To address this challenge, **Named Entity Recognition (NER)** is used to automatically extract key entities such as **persons, locations, organizations, products, and more** from social media text. Traditional NER models often struggle with informal language, abbreviations, and limited context in short-form text. Hence, a robust deep learning-based NER system is required to effectively identify and classify entities without relying on hashtags or predefined tags.

1.2 OBJECTIVE OF THE PROJECT

The objective of this project is to **develop a fine-grained Named Entity Recognition (NER) system** for short-text data using **deep learning models** like **LSTM-CRF and Transformer-based architectures (e.g., BERT)**. The system will automatically identify and classify entities such as **persons, locations, organizations, products, and more**, without relying on hashtags or predefined tags.

This project involves **preprocessing text in CoNLL format, tokenization, training multiple models, optimizing hyperparameters, and evaluating performance**. By comparing traditional and transformer-based approaches, the goal is to build a robust NER system capable of accurately extracting named entities from informal and unstructured social media text.

1.3 IMPORT LIBRARIES

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

1.4 IMPORT DATASET

1.4.1 What is CoNLL?

CoNLL (Conference on Computational Natural Language Learning) is an annual conference focused on Natural Language Processing (NLP) and Machine Learning (ML). It has hosted several **shared tasks**, particularly for **Named Entity Recognition (NER), Dependency Parsing, and Semantic Role Labeling**.

In the context of NLP, **CoNLL format** refers to a **structured text file format** used to represent linguistic annotations, such as **tokens, part-of-speech (POS) tags, and named entity labels**.

1.4.2 CoNLL Format for Named Entity Recognition (NER)

In NER tasks, the CoNLL format typically consists of:
- **One word (token) per line**
- **Each word is followed by its label (entity tag)**
- **Sentences are separated by a blank line**

Example (CoNLL BIO Format)

```
Harry B-PER
Potter I-PER
was O
a O
student O
living O
in O
London B-geo-loc

Albus B-PER
Dumbledore I-PER
went O
to O
the O
Disney B-facility
World I-facility
```

1.4.3 Explanation:

- **B- (Beginning of an entity):** First word of a named entity.

- **I- (Inside an entity):** Subsequent words within the same entity.

- **O (Outside an entity):** Words that do not belong to any entity.

1.4.4 Why Use CoNLL Format?

- **Standardized** – Used in many NLP datasets (e.g., CoNLL-2003, WNUT-16).

- **Simple Structure** – Easy to read and process for NER models.

- **Sentence Delimitation** – Blank lines clearly separate sentences.

1.4.5 Loading the CoNLL dataset as 2D List of tuples

- **Example of output format** > 2D List of tuples like (word, tag) » [[('Harry', 'B-PER'), ('Potter', 'I-PER'), ('was', 'O'), ('a', 'O'), ('student', 'O'), ('living', 'O'), ('in', 'O'), ('London','B-geo-loc')],
  [('Albus', 'B-PER'), ('Dumbledore', 'I-PER'), ('went', 'O'), ('to', 'O'), ('the', 'O'), ('Disney', 'B-facility'), ('World', 'I-facility')]]

```python
[1]: def load_data(filename: str):
         """
         Loads a CoNLL-formatted dataset and returns a 2D list of (word, tag) tuples.

         Args:
             filename (str): Path to the CoNLL file.

         Returns:
             list: A list of sentences, where each sentence is a list of (word, tag)
     ↪tuples.
         """

         # Open the file and read all lines
         with open(filename, 'r') as file:
             # Read each line, remove the newline character, and split into tokens
             lines = [line.strip().split() for line in file]

         samples = []  # List to store sentences
         start = 0  # Start index of a sentence

         # Iterate through the lines to group words into sentences
         for end, parts in enumerate(lines):
             if not parts:  # Blank line indicates the end of a sentence
                 sample = [(token, tag) for token, tag in lines[start:end]]  #
     ↪Extract sentence tokens
                 samples.append(sample)  # Append sentence to the dataset
                 start = end + 1  # Move start index to the next sentence

         # Handle the last sentence if the file does not end with a blank line
         if start < end:
             samples.append([(token, tag) for token, tag in lines[start:end]])
```

```
    return samples   # Return the list of sentences
```

[2]:
```
!gdown 14_VHff11qBUEnZ1IWFHnh6B9M5_A-Wf8
!gdown 1cnrGjppPOU_NtHNpGuORJGg1CUNNsse_
```

```
Downloading…
From: https://drive.google.com/uc?id=14_VHff11qBUEnZ1IWFHnh6B9M5_A-Wf8
To: /content/wnut 16.txt.conll
100% 403k/403k [00:00<00:00, 9.97MB/s]
Downloading…
From: https://drive.google.com/uc?id=1cnrGjppPOU_NtHNpGuORJGg1CUNNsse_
To: /content/wnut 16test.txt.conll
100% 635k/635k [00:00<00:00, 8.29MB/s]
```

[3]:
```
train_samples = load_data(r'/content/wnut 16.txt.conll')
test_samples = load_data(r'/content/wnut 16test.txt.conll')
print(f"length of train_samples: {len(train_samples)}")
print(f"length of test_samples: {len(test_samples)}")
total_samples = train_samples + test_samples
print(f"length of total samples: {len(total_samples)}")
```

```
length of train_samples: 2394
length of test_samples: 3850
length of total samples: 6244
```

[4]:
```
# Creating NER Schema where '_' is representing null token
schema = ['_'] + sorted({tag for sentence in total_samples
                         for _, tag in sentence}) # '_' is used to indicate
↪a null (blank) token.
```

A set comprehension extracts all unique NER tags from the dataset.

The sorted() function sorts these tags in alphabetical order.

['_'] is added at the beginning to represent a null (blank) token, which might be used in models like CRF (Conditional Random Fields).

train and test samples are combined because train samples are less than test samples in the given dataset. So better to combine and split again properly for proper training.

1.5 DESCRIPTION REGARDING THE DATASET

[5]:
```
# Structure of the data - 2D list of tuples (word, tag)
print(total_samples[:2])
```

```
[[('@SammieLynnsMom', 'O'), ('@tg10781', 'O'), ('they', 'O'), ('will', 'O'),
('be', 'O'), ('all', 'O'), ('done', 'O'), ('by', 'O'), ('Sunday', 'O'),
('trust', 'O'), ('me', 'O'), ('*wink*', 'O')], [('Made', 'O'), ('it', 'O'),
('back', 'O'), ('home', 'O'), ('to', 'O'), ('GA', 'B-geo-loc'), ('.', 'O'),
('It', 'O'), ('sucks', 'O'), ('not', 'O'), ('to', 'O'), ('be', 'O'), ('at',
'O'), ('Disney', 'B-facility'), ('world', 'I-facility'), (',', 'O'), ('but',
```

```
'O'), ('its', 'O'), ('good', 'O'), ('to', 'O'), ('be', 'O'), ('home', 'O'),
('.', 'O'), ('Time', 'O'), ('to', 'O'), ('start', 'O'), ('planning', 'O'),
('the', 'O'), ('next', 'O'), ('Disney', 'B-facility'), ('World', 'I-facility'),
('trip', 'O'), ('.', 'O')]]
```

```
[6]: # schema consists of Named Entity classes
     schema
```

```
[6]: ['_',
     'B-company',
     'B-facility',
     'B-geo-loc',
     'B-movie',
     'B-musicartist',
     'B-other',
     'B-person',
     'B-product',
     'B-sportsteam',
     'B-tvshow',
     'I-company',
     'I-facility',
     'I-geo-loc',
     'I-movie',
     'I-musicartist',
     'I-other',
     'I-person',
     'I-product',
     'I-sportsteam',
     'I-tvshow',
     'O']
```

Observation > Given dataset is fine grained NER dataset

There are 10 unique named Entities with B and I tags.

'_' is null token

'O' outside entity tag

'B' is Beginning entity tag

'I' is inside entity tag

1.5.1   What is Fine-Grained Named Entity Recognition (NER)?

Fine-grained NER refers to a more detailed classification of named entities compared to standard **coarse-grained** categories. Instead of broadly classifying entities as **Person, Location, Organization, or Miscellaneous**, fine-grained NER identifies **specific subcategories** for better contextual understanding.

Fine-Grained Entity Categories:

Entity Label	Meaning
`B-company`, `I-company`	Business or organization names (e.g., Apple, Microsoft)
`B-facility`, `I-facility`	Physical locations (e.g., airports, buildings)
`B-geo-loc`, `I-geo-loc`	Geographical locations (e.g., cities, countries)
`B-movie`, `I-movie`	Movie titles (e.g., Inception, Titanic)
`B-musicartist`, `I-musicartist`	Music artists (e.g., The Beatles, Taylor Swift)
`B-other`, `I-other`	Generic or uncategorized named entities
`B-person`, `I-person`	Individual names (e.g., Elon Musk, Barack Obama)
`B-product`, `I-product`	Products (e.g., iPhone, PlayStation)
`B-sportsteam`, `I-sportsteam`	Sports teams (e.g., Manchester United, LA Lakers)
`B-tvshow`, `I-tvshow`	TV show names (e.g., Breaking Bad, Game of Thrones)

2 EXPLORATORY DATA ANALYSIS

### 2.0.1 Histogram of tokens per sentence

```python
[7]: def plot_token_histogram(samples):
         """
         Plots a histogram of token counts per sentence.

         Args:
             samples (list): A list of sentences, where each sentence is a list of␣
     ↪(token, tag) tuples.
         """

         # Count the number of tokens in each sentence
         sentence_lengths = [len(sentence) for sentence in samples]

         # Plot the histogram
         plt.figure(figsize=(8, 5))
         plt.hist(sentence_lengths, bins=20, color='skyblue', edgecolor='black')

         # Labels and title
         plt.xlabel("Number of Tokens per Sentence")
         plt.ylabel("Frequency")
         plt.title("Histogram of Tokens per Sentence")
```

```
    plt.grid(axis='y', linestyle='--', alpha=0.7)

    # Show plot
    plt.show()
```

[9]:
```python
import matplotlib.pyplot as plt
# Call the function with your dataset
plot_token_histogram(total_samples)
```
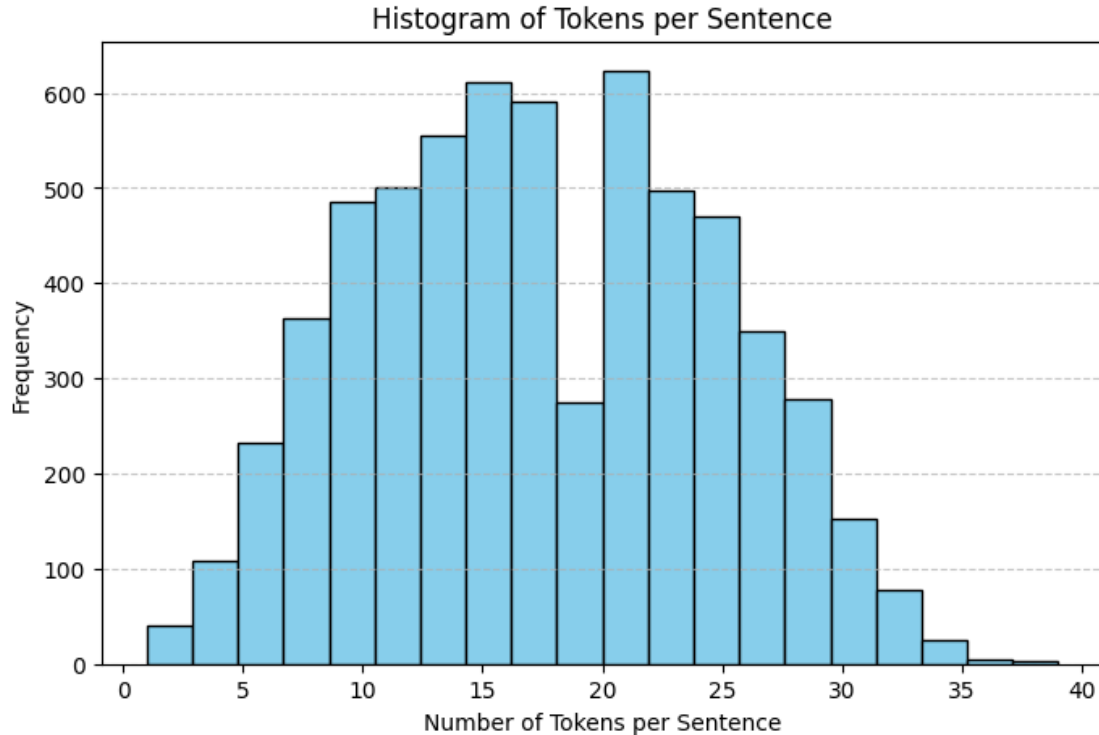

2.0.2 Count plot of NER tags

[14]:
```python
from collections import Counter
import seaborn as sns

def plot_tag_distribution(samples):
    """
    Plots a count plot of each NER tag.

    Args:
        samples (list): A list of sentences, where each sentence is a list of␣
    ↪(token, tag) tuples.
    """
```

```python
    # Extract all tags from the dataset
    all_tags = [tag for sentence in samples for _, tag in sentence]

    # Count occurrences of each tag
    tag_counts = Counter(all_tags)

    # Convert to lists for plotting
    tags, counts = zip(*tag_counts.items())

    # Plot using Seaborn
    plt.figure(figsize=(10, 5))
    sns.barplot(x=list(tags), y=list(counts), palette="viridis")

    # Labels and title
    plt.xlabel("NER Tags")
    plt.ylabel("Count")
    plt.title("Distribution of NER Tags")
    plt.xticks(rotation=45, ha="right")  # Rotate labels for better readability
    plt.grid(axis="y", linestyle="--", alpha=0.7)

    # Show plot
    plt.show()
```
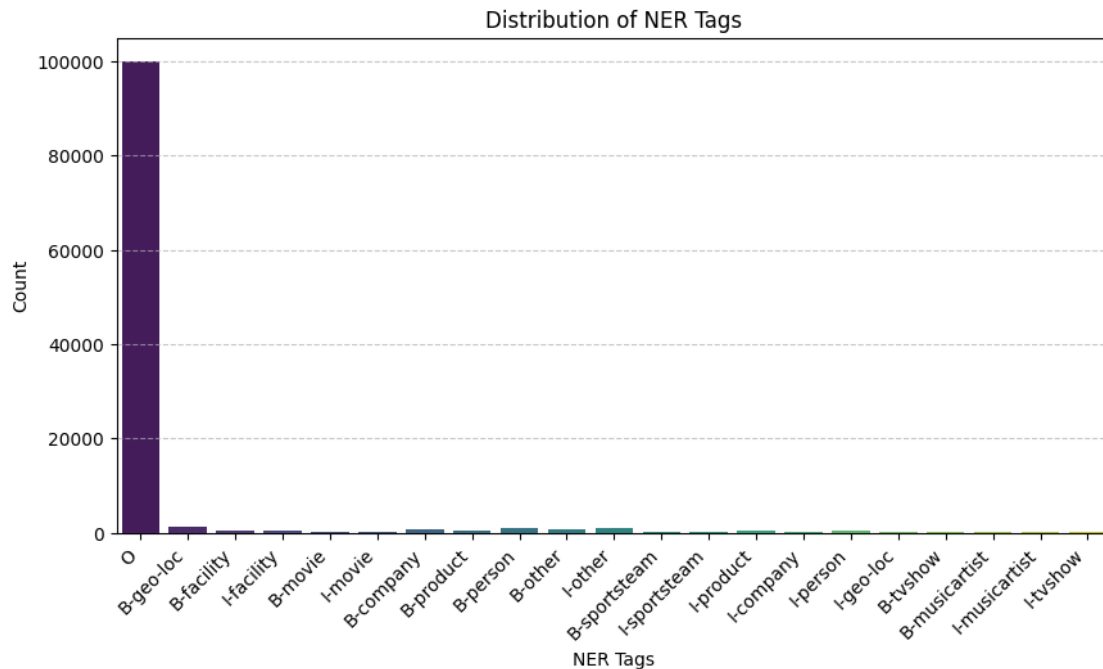
```python
[15]: # Call the function with your dataset
      plot_tag_distribution(total_samples)
```

```
<ipython-input-14-28de54b765a3>:23: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in
v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same
effect.

  sns.barplot(x=list(tags), y=list(counts), palette="viridis")
```

Distribution of NER Tags


```python
[16]: def plot_sorted_named_entity_distribution_without_o_tag(samples):
          """
          Plots a sorted count plot of NER tags, excluding the 'O' tag.
          B- tags will appear before I- tags for each entity type.

          Args:
              samples (list): A list of sentences, where each sentence is a list of↵
      ↪(token, tag) tuples.
          """

          # Extract all tags, excluding 'O'
          all_tags = [tag for sentence in samples for _, tag in sentence if tag !=↵
      ↪'O']

          # Count occurrences of each tag
          tag_counts = Counter(all_tags)

          # Sort tags: First by entity type (after removing B- and I-), then by B-↵
      ↪before I-
          sorted_tags = sorted(tag_counts.keys(), key=lambda tag: (tag[2:], tag[0]))

          # Get counts in sorted order
          sorted_counts = [tag_counts[tag] for tag in sorted_tags]

          # Plot using Seaborn
```

```python
plt.figure(figsize=(10, 5))
sns.barplot(x=sorted_tags, y=sorted_counts, palette="viridis")

# Labels and title
plt.xlabel("NER Tags")
plt.ylabel("Count")
plt.title("Sorted Distribution of Named Entity Tags (Excluding 'O')")
plt.xticks(rotation=45, ha="right")  # Rotate labels for readability
plt.grid(axis="y", linestyle="--", alpha=0.7)

# Show plot
plt.show()
```
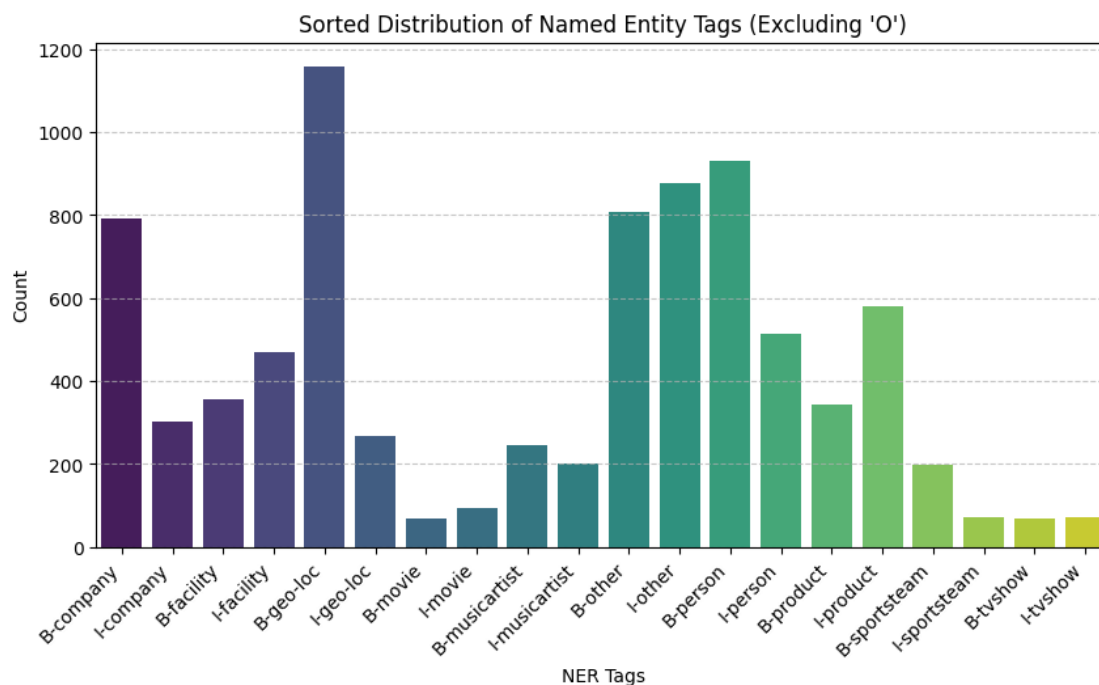
[17]:
```python
# Call the function with your dataset
plot_sorted_named_entity_distribution_without_o_tag(total_samples)
```

<ipython-input-16-808878e1de0d>:24: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in
v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same
effect.

```python
  sns.barplot(x=sorted_tags, y=sorted_counts, palette="viridis")
```


Sorted Distribution of Named Entity Tags (Excluding 'O')

Observation > `company, geo-loc, musicartist person, sportsteam` has B-tags greater than
I-tags count. This indicates that these tags have mostly made of single words.

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`facilty`, `movie`, `other`, `product` has B-tags lesser than I-tags count. This indicates that these tags have mostly made of multiple words.

'tv-show' has equal B-tags and I-tags count which indicate almost all tv shows have same length.

3 DATA PREPROCESSING

3.1 TRAIN TEST SPLIT

3.1.1 Split Data into Train and Validation

```python
[5]: from sklearn.model_selection import train_test_split

     # Split train_samples into train and validation sets
     train_samples, test_samples = train_test_split(total_samples, test_size=0.2,
       ↪random_state=42)
     train_samples, val_samples = train_test_split(train_samples, test_size=0.2,
       ↪random_state=42)

     print(f"length of train_samples: {len(train_samples)}")
     print(f"length of val_samples: {len(val_samples)}")
     print(f"length of test_samples: {len(test_samples)}")
     # Now you have train_samples, val_samples, and test_samples
```

```
length of train_samples: 3996
length of val_samples: 999
length of test_samples: 1249
```

3.1.2 Max Length and Vocab Size

```python
[6]: from collections import defaultdict
     word_counts = defaultdict(int) # Calculate vocab size
     max_len = 0 # Calculate max length of a sentence
     for sample in train_samples:
       for word in sample:
         word_counts[word[0]]+=1
       max_len = max(max_len, len(sample))
     n_words = len(word_counts.items())
     print("Max word Length in the training corpus: ", max_len)
     print("Vocab Size (Number of words in Vocabulary from training corpus): ",
       ↪n_words)
```

```
Max word Length in the training corpus:  39
Vocab Size (Number of words in Vocabulary from training corpus):  18136
```

3.2 WORD EMBEDDINGS

3.2.1 Load Pretrained Embeddings

```
[12]: import gensim.downloader as api
      print("Loading GloVe Twitter 200D...")
      glove_model = api.load("glove-twitter-200")  # 200D GloVe
      print("GloVe Twitter 200D loaded!")
```

```
Loading GloVe Twitter 200D…
GloVe Twitter 200D loaded!
```

3.2.2 Tokenizer

```
[7]: from tensorflow.keras.preprocessing.text import Tokenizer
```

```
[8]: # Extract words from training dataset
     sentences = [[word for word, label in sent] for sent in train_samples]

     # Tokenizer
     tokenizer = Tokenizer(oov_token="<OOV>")
     tokenizer.fit_on_texts(sentences)
     vocab_size = len(tokenizer.word_index) + 1  # Include padding index
     print("Vocabulary size of training tokens:", vocab_size)
```

```
Vocabulary size of training tokens: 15709
```

3.2.3 Create Embedding matrix using Random Fallback Strategy

```
[15]: import numpy as np

      embedding_dim = 200  # Using GloVe Twitter size
      embedding_matrix = np.zeros((vocab_size, embedding_dim))

      # Set a fixed seed for reproducibility
      np.random.seed(42)

      for word, i in tokenizer.word_index.items():
          if word in glove_model:
              embedding_matrix[i] = glove_model[word]  # 1st: GloVe Twitter
          else:
              embedding_matrix[i] = np.random.uniform(-0.05, 0.05, embedding_dim)  #␣
      ↪2nd: Random
```

```
[16]: embedding_matrix.shape
```

```
[16]: (15709, 200)
```

Observation > We have truncated the 300d embeddings to 200d for simplicity. But We can also use PCA for dimensionality reduction of embeddings for more robustness.

3.2.4 Convert Sentences to Indexed Sequences & Pad

```python
[17]: from tensorflow.keras.preprocessing.sequence import pad_sequences

      def convert_sentences_to_sequences(data, tokenizer, max_len=None):
          sequences = []
          for sentence in data:
              words = [word for word, label in sentence]  # Extract words
              seq = tokenizer.texts_to_sequences([words])[0]  # Convert words to
       ↪indices
              sequences.append(seq)

          if max_len is None:
              max_len = max(len(seq) for seq in sequences)  # Find longest sentence

          padded_sequences = pad_sequences(sequences, maxlen=max_len, padding="post")
          return padded_sequences, max_len

      # Convert train, val, test sets
      train_sequences, max_len = convert_sentences_to_sequences(train_samples,
       ↪tokenizer)
      val_sequences, _ = convert_sentences_to_sequences(val_samples, tokenizer,
       ↪max_len)
      test_sequences, _ = convert_sentences_to_sequences(test_samples, tokenizer,
       ↪max_len)
```

```python
[18]: train_sequences.shape, val_sequences.shape, test_sequences.shape
```

```
[18]: ((3996, 39), (999, 39), (1249, 39))
```

```python
[19]: max_len
```

```
[19]: 39
```

```python
[20]: train_samples[0]
```

```
[20]: [('#ChattanoogaShooting', 'O'),
       ('Heart', 'O'),
       ('breaking', 'O'),
       ('new', 'O'),
       ('details', 'O'),
       ('.', 'O'),
       ('https://twitter.com/ap/status/621754537280454657', 'O'),
       ('…', 'O')]
```

```python
[21]: train_sequences[0]
```

```
[21]: array([ 562,  409,  410,   76,  454,    2, 4133,   85,    0,    0,    0,
               0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
               0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
               0,    0,    0,    0,    0,    0], dtype=int32)
```

3.2.5 Checking for any words with missing embeddings

```
[22]: word_index = tokenizer.word_index
```

```
[23]: print(word_index)
```

{'<OOV>': 1, '.': 2, ':': 3, ',': 4, 'the': 5, 'to': 6, 'i': 7, 'a': 8, 'rt': 9,
'in': 10, '!': 11, 'you': 12, 'and': 13, 'for': 14, 'on': 15, 'of': 16, '…':
17, 'at': 18, 'it': 19, 'is': 20, "'s": 21, 'may': 22, 'be': 23, 'my': 24, '?':
25, '-': 26, 'tomorrow': 27, 'day': 28, 'shooting': 29, 'have': 30, 'when': 31,
'this': 32, 'that': 33, '"': 34, 'today': 35, 'with': 36, 'me': 37, '(': 38,
'time': 39, ')': 40, 'breach': 41, '2015': 42, 'out': 43, 'so': 44, 'just': 45,
'but': 46, 'get': 47, 'your': 48, 'tonight': 49, 'will': 50, 'up': 51, 'all':
52, 'not': 53, 'friday': 54, 'was': 55, 'from': 56, 'we': 57, 'are': 58, "'":
59, "i'm": 60, 'by': 61, 'go': 62, 'now': 63, 'as': 64, 'u': 65, 'week': 66,
'like': 67, '&': 68, '2': 69, 'if': 70, 'more': 71, 'after': 72, '..': 73,
'do': 74, ':)': 75, 'new': 76, 'can': 77, '!!': 78, 'what': 79, 'one': 80, 'he':
81, 'sunday': 82, '3': 83, 'no': 84, '…': 85, 'about': 86, 'an': 87, 'saturday':
88, 'good': 89, 'or': 90, 'there': 91, 'going': 92, 'monday': 93, 'people': 94,
'love': 95, 'see': 96, 'our': 97, 'happy': 98, 'before': 99, 'know': 100, 'how':
101, 'been': 102, 'via': 103, 'next': 104, 'night': 105, '!!!': 106, 'am': 107,
'1st': 108, 'they': 109, 'lol': 110, 'school': 111, 'some': 112, 'here': 113,
'got': 114, '<': 115, "don't": 116, 'its': 117, '|': 118, 'back': 119,
'data': 120, 'come': 121, 'pm': 122, 'has': 123, 'us': 124, 'need': 125, '1':
126, 'had': 127, 'make': 128, 'dead': 129, 'last': 130, 'year': 131, 'who': 132,
'want': 133, 'well': 134, '4': 135, 'september': 136, 'work': 137, 'great': 138,
'off': 139, 'na': 140, 'april': 141, 'her': 142, 'live': 143, 'july': 144,
'first': 145, 'were': 146, 'hope': 147, 'video': 148, 'police': 149, 'free':
150, 'june': 151, 'would': 152, 'too': 153, 'his': 154, 'home': 155, 'show':
156, ';': 157, 'did': 158, 'say': 159, 'days': 160, 'im': 161, 'years': 162,
'sun': 163, 'again': 164, "can't": 165, 'game': 166, 'think': 167, 'march': 168,
'november': 169, 'life': 170, 'morning': 171, 'mon': 172, 'over': 173,
'december': 174, 'august': 175, 'october': 176, 'security': 177, 'oh': 178,
'them': 179, 'party': 180, '2nd': 181, 'why': 182, 'twitter': 183, 'take': 184,
'only': 185, 'gonna': 186, 'every': 187, 'even': 188, 'really': 189, "i'll":
190, 'birthday': 191, 'tuesday': 192, 'than': 193, 'thursday': 194, '…': 195,
'long': 196, 'still': 197, 'much': 198, '20': 199, 'way': 200, 'says': 201,
'their': 202, 'news': 203, '3rd': 204, 'until': 205, 'should': 206, '@': 207,
'let': 208, 'into': 209, 'never': 210, 'please': 211, ':d': 212, 'high': 213,
'10': 214, 'she': 215, 'then': 216, 'right': 217, 'sa': 218, 'coming': 219, '5':
220, 'thanks': 221, 'follow': 222, 'better': 223, 'could': 224, 'killed': 225,
'wait': 226, 'season': 227, 'ready': 228, 'man': 229, '6': 230, 'another': 231,
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```python
missed_words = []

for word in tokenizer.word_index.keys():
    if word not in glove_model:
        missed_words.append(word)

print(f"Total missed words: {len(missed_words)}")
print("Some missed words:", missed_words)  # Print first 10 missed words
```

```
Total missed words: 6982
Some missed words: ['<OOV>', '…', '2015', "i'm", '2', '..', ':)', '!!', '3',
'!!!', '1st', '&lt;', "don't", '1', '4', "can't", '2nd', "i'll", '…', '20',
'3rd', ':d', '10', '5', '6', "i've", '4th', "you're", '&gt;', '2010', '12',
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'http://www.itgovernance.co.uk/blog/jd-wetherspoon-data-breach-300-bigger-than-talktalk-incident/', 'http://www.theguardian.com/technology/2015/dec/21/hello-kitty-data-breach-leaks-details-3-3million-user-accounts', 'techytutorssd', '#letsfootball', '#atk', '#1stchampion', '#flight', '#invisibility', '#timetravel', 'http://t.co/woaillz', '@macmiller', '@baldy129-', 'aaa-', '@pinkbased', '#dearinstagram', 'papupuntahin', '03:44', '#if24', '#s8', 'http://www.ekouk.com/resources/free-downloads/how-to-check-if-your-website-is-insecure-and-how-to-fix-it/', ',?', '@weloverobdyrdek', 'http://t.co/odkg9dtq9v', '@sfgiantsfan55', '`07', '@taqui_jade', 'https://t.co/cwdhdehtfx', '@andrearussett', 'http://t.co/f3zr8g6kin', 'onfb', '@kjhiggins', '@informationweek', 'http://add.vc/rnq', '07:26', '69f', '49f', 'news2', 'http://bit.ly/1ctt4cx', 'sat-sunday', 'http://t.co/lptrakuyvz', '@alkohler7', 'https://t.co/vqfakeflph', 'bone-headed', '@believencriss', 'yayyy', '@oupacademic', 'https://t.co/af03qm2qie', '#vsi', '#twitterstorians', '@prophecyent', 'kalado', 'marvindancer', 'http://t.co/xolxjhhi5i', '#summerjamuk', '07587408469', '#doinme', '#linode', '#passwords', '#ddosattack', 'http://ow.ly/whcxt', 'http://ow.ly/pkwfl', 'http://ow.ly/swamf', 'http://t.co/vhtmiyercu', '04:59', '@tomiho5world', 'tomiho', '#mmkbigwinner', '@jimmy722', '@apollocrews', '#nxttakeover', '#nxttakeoverrespect', '#apollonation', '#gifted', '#tooeasy', '@andyserling', "http://tinyurl.com/2brsuxs'", '@_paaaul10', '@bigrayoconnor', '@itsallgood782', 'inoffice', '@mediacrooks', '@fordfoundation', '@arvindkejriwal', 'https://t.co/bay3zjvz9n', '@securityaffairs', 'http://bit.ly/1mqoxcn', '#hacking', '#hackers', '#cybercrime', '#freebsd', '#spain', '#beachfront', '#asiatico', '#letters', '#dontmakemeleave', 'https://t.co/35xgf0idwv', '@cebununa', '@giaallemand', '@chrislambton13', '140', 'http://t.co/zma5weuex9', 'http://t.co/dwhmomsemc', '6:16', '#futuredodgers', 'http://bit.ly/1fzsuyt', 'http://t.co/s9ug8psrnu', 'https://t.co/fcm8rfpdvh', '#indvssa2015serie', 'https://t.co/emcsnxqamv', 'http://t.co/osdeqokzbq', '02:04', 'makapagpost', '-summer', '#vancouver', '#summerstill', 'http://t.co/wfxkwhviq0', '@glasgirl', '@xsophiebx', '1961', '5,000', 'sep-14-201', 'http://t.co/qld8zram38', '@distracted_monk', '-the', '#lifeispointless', 'http://t.co/jpa1qjwr9x', 'spicewood', 'http://t.co/ycw9ehrqrx', '#gansettlane', 'https://t.co/o0wlocgzsp', '@xiaomai_', "'…", 'http://bit.ly/dbdms8', '#webhosting', 'http://webogi.com/ejsq78', '@patersonjeff', '#canucks', '@annnnnet08', 'http://link.fox4kc.com/1gvgusb', 'three-oh', 'three-ee-ee-oh', '#tokaidoroad', '@thegulbenkian', '#canterbury', 'http://t.co/uyznagsgjh', '@goingoninkent', '@gracethorson', 'places/time', '@christianscroll', 'hettinger', 'http://t.co/cjmrpzqmci', 'chemours', '@wkbw', 'https://t.co/bv0nmsiurp', '#wilmington', 'https://t.co/5lbazfgvcp', 'g61380', '10.5', 'https://t.co/9kxs5otedl', 'https://t.co/nftwbi5eg1', '@darioall', 'https://t.co/g4iuegg5r7', 'bakiw', '@richtillas', 'chardtillas', 'kiligmonday', '@lilwhitebear', '@grouchoduke', 'year)', '@toukie_s', "i'mgoing", '@bloodybeetroots', '#sbcrandfriends', 'http://t.co/gxdf06vdnh', '#teamsbcr', 'theeconomist', 'steeply', 'https://t.co/i4idolqt4h', 'https://t.co/5ri1clr9yq', '#tytlive', '@berniesanders', '100.00', 'https://t.co/jrpc11g5dr', '12:17', '#jkt48juarakca2015', '@quintessence_t', '@beautifulhallyu', 'http://t.co/dfubfsolg4', 'http://t.co/1cojcxyt10', '@shayalkumar', 'kabc',

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'@suganormami', '5hcas', '#sacramento', 'http://sacb.ee/1lmd', '2015)-',
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Observation > All these 6416 missed words will be randomly initialised

3.3 LABEL MAPPINGS

3.3.1 Convert labels to label sequences

```python
import numpy as np
from tensorflow.keras.preprocessing.sequence import pad_sequences
# Create mappings using schema
schema = list(schema)  # Ensure schema is a list

tag2id = {tag: i for i, tag in enumerate(schema)}
id2tag = {i: tag for tag, i in tag2id.items()}


def convert_labels_to_sequences(data, tag2id, max_len=None):
    '''Converts labels to sequences with one-hot encoding'''
    label_sequences = []

    for sentence in data:
        labels = [tag2id[label] for _, label in sentence]  # Convert labels to
    ↪indices
        label_sequences.append(labels)

    if max_len is None:
        max_len = max(len(seq) for seq in label_sequences)  # Get max length

    padded_labels = pad_sequences(label_sequences, maxlen=max_len,
    ↪padding="post", value=tag2id["O"])  # Pad with "O"

    # Convert labels to one-hot encoding
    ohe_labels = np.zeros((len(padded_labels), max_len, len(tag2id)))
    for i, seq in enumerate(padded_labels):
        for j, label_id in enumerate(seq):
            ohe_labels[i, j, label_id] = 1  # One-hot encoding

    return ohe_labels, max_len

# Convert train, val, test labels
train_labels, max_len = convert_labels_to_sequences(train_samples, tag2id)
val_labels, _ = convert_labels_to_sequences(val_samples, tag2id, max_len)
test_labels, _ = convert_labels_to_sequences(test_samples, tag2id, max_len)
```

```python
train_labels.shape, val_labels.shape, test_labels.shape
```

```
((3996, 39, 22), (999, 39, 22), (1249, 39, 22))
```

```python
max_len
```

```
39
```

```
[28]: train_samples[0]
```

```
[28]: [('#ChattanoogaShooting', 'O'),
       ('Heart', 'O'),
       ('breaking', 'O'),
       ('new', 'O'),
       ('details', 'O'),
       ('.', 'O'),
       ('https://twitter.com/ap/status/621754537280454657', 'O'),
       ('…', 'O')]
```

```
[29]: train_labels[0]
```

```
[29]: array([[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
```

```
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.],
[0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
 0., 0., 0., 0., 0., 1.]])
```

Observation > Padding with 'O' labels.

```
[30]: train_samples[2]
```

```
[30]: [('The', 'B-movie'),
       ('Town', 'I-movie'),
       ('was', 'O'),
       ('a', 'O'),
       ('really', 'O'),
       ('good', 'O'),
       ('movie', 'O'),
       ('!!!', 'O'),
       ('Now', 'O'),
       ('passing', 'O'),
       ('the', 'O'),
       ('time', 'O'),
       ('watching', 'O'),
       ('&quot;', 'O'),
       ('Easy', 'B-movie'),
       ('A', 'I-movie'),
       ('&quot;', 'O'),
       ('until', 'O'),
       ('&quot;', 'O'),
       ('Devil', 'B-movie'),
       ('&quot;', 'O'),
       ('starts', 'O'),
       ('!', 'O')]
```

```
[31]: train_labels[2]
```

```
[31]: array([[0., 0., 0., 0., 1., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 0.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 1., 0.,
               0., 0., 0., 0., 0., 0.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
               0., 0., 0., 0., 0., 1.],
              [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
```

```
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 1., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 0.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 1., 0.,
  0., 0., 0., 0., 0., 0.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 1., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 0.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
 [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
  0., 0., 0., 0., 0., 1.],
```

```
      [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
       0., 0., 0., 0., 0., 1.],
      [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
       0., 0., 0., 0., 0., 1.],
      [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
       0., 0., 0., 0., 0., 1.],
      [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
       0., 0., 0., 0., 0., 1.],
      [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
       0., 0., 0., 0., 0., 1.],
      [0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0., 0.,
       0., 0., 0., 0., 0., 1.]])
```

```python
[32]: print("tag2id:", tag2id)
      print("id2tag:", id2tag)
```

```
tag2id: {'_': 0, 'B-company': 1, 'B-facility': 2, 'B-geo-loc': 3, 'B-movie': 4,
'B-musicartist': 5, 'B-other': 6, 'B-person': 7, 'B-product': 8, 'B-sportsteam':
9, 'B-tvshow': 10, 'I-company': 11, 'I-facility': 12, 'I-geo-loc': 13,
'I-movie': 14, 'I-musicartist': 15, 'I-other': 16, 'I-person': 17, 'I-product':
18, 'I-sportsteam': 19, 'I-tvshow': 20, 'O': 21}
id2tag: {0: '_', 1: 'B-company', 2: 'B-facility', 3: 'B-geo-loc', 4: 'B-movie',
5: 'B-musicartist', 6: 'B-other', 7: 'B-person', 8: 'B-product', 9:
'B-sportsteam', 10: 'B-tvshow', 11: 'I-company', 12: 'I-facility', 13: 'I-geo-
loc', 14: 'I-movie', 15: 'I-musicartist', 16: 'I-other', 17: 'I-person', 18:
'I-product', 19: 'I-sportsteam', 20: 'I-tvshow', 21: 'O'}
```

```python
[ ]: # # Code for mapping the Schema without OHE

     # schema = list(schema)  # Ensure schema is a list

     # tag2id = {tag: i for i, tag in enumerate(schema)}
     # id2tag = {i: tag for tag, i in tag2id.items()}

     # def convert_labels_to_sequences(data, tag2id, max_len=None):
     #     '''Converts labels to sequences with integer indices'''
     #     label_sequences = []

     #     for sentence in data:
     #         labels = [tag2id[label] for _, label in sentence]  # Convert labels
     # ↪to indices
     #         label_sequences.append(labels)

     #     if max_len is None:
     #         max_len = max(len(seq) for seq in label_sequences)  # Get max length
```

```python
#     padded_labels = pad_sequences(label_sequences, maxlen=max_len,␣
 ↪padding="post", value=tag2id["O"])  # Pad with "O"

#     return np.array(padded_labels), max_len  # Return integer labels instead␣
 ↪of OHE

# # Convert train, val, test labels
# train_labels, max_len = convert_labels_to_sequences(train_samples, tag2id)
# val_labels, _ = convert_labels_to_sequences(val_samples, tag2id, max_len)
# test_labels, _ = convert_labels_to_sequences(test_samples, tag2id, max_len)
```

4 LSTM BASED MODELS

4.1 LSTM + CRF MODEL

```python
[48]:  # %pip install datasets transformers
       # %pip install tensorflow_addons
       # !pip install 'keras<3.0.0' mediapipe-model-maker
```

```
Collecting datasets
  Downloading datasets-3.3.2-py3-none-any.whl.metadata (19 kB)
Requirement already satisfied: transformers in /usr/local/lib/python3.11/dist-
packages (4.48.3)
Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-
packages (from datasets) (3.17.0)
Requirement already satisfied: numpy>=1.17 in /usr/local/lib/python3.11/dist-
packages (from datasets) (1.26.4)
Requirement already satisfied: pyarrow>=15.0.0 in
/usr/local/lib/python3.11/dist-packages (from datasets) (17.0.0)
Collecting dill<0.3.9,>=0.3.0 (from datasets)
  Downloading dill-0.3.8-py3-none-any.whl.metadata (10 kB)
Requirement already satisfied: pandas in /usr/local/lib/python3.11/dist-packages
(from datasets) (2.2.2)
Requirement already satisfied: requests>=2.32.2 in
/usr/local/lib/python3.11/dist-packages (from datasets) (2.32.3)
Requirement already satisfied: tqdm>=4.66.3 in /usr/local/lib/python3.11/dist-
packages (from datasets) (4.67.1)
Collecting xxhash (from datasets)
  Downloading
xxhash-3.5.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata
(12 kB)
Collecting multiprocess<0.70.17 (from datasets)
  Downloading multiprocess-0.70.16-py311-none-any.whl.metadata (7.2 kB)
Requirement already satisfied: fsspec<=2024.12.0,>=2023.1.0 in
/usr/local/lib/python3.11/dist-packages (from
fsspec[http]<=2024.12.0,>=2023.1.0->datasets) (2024.10.0)
Requirement already satisfied: aiohttp in /usr/local/lib/python3.11/dist-
```

packages (from datasets) (3.11.12)
Requirement already satisfied: huggingface-hub>=0.24.0 in
/usr/local/lib/python3.11/dist-packages (from datasets) (0.28.1)
Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-
packages (from datasets) (24.2)
Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.11/dist-
packages (from datasets) (6.0.2)
Requirement already satisfied: regex!=2019.12.17 in
/usr/local/lib/python3.11/dist-packages (from transformers) (2024.11.6)
Requirement already satisfied: tokenizers<0.22,>=0.21 in
/usr/local/lib/python3.11/dist-packages (from transformers) (0.21.0)
Requirement already satisfied: safetensors>=0.4.1 in
/usr/local/lib/python3.11/dist-packages (from transformers) (0.5.2)
Requirement already satisfied: aiohappyeyeballs>=2.3.0 in
/usr/local/lib/python3.11/dist-packages (from aiohttp->datasets) (2.4.6)
Requirement already satisfied: aiosignal>=1.1.2 in
/usr/local/lib/python3.11/dist-packages (from aiohttp->datasets) (1.3.2)
Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.11/dist-
packages (from aiohttp->datasets) (25.1.0)
Requirement already satisfied: frozenlist>=1.1.1 in
/usr/local/lib/python3.11/dist-packages (from aiohttp->datasets) (1.5.0)
Requirement already satisfied: multidict<7.0,>=4.5 in
/usr/local/lib/python3.11/dist-packages (from aiohttp->datasets) (6.1.0)
Requirement already satisfied: propcache>=0.2.0 in
/usr/local/lib/python3.11/dist-packages (from aiohttp->datasets) (0.2.1)
Requirement already satisfied: yarl<2.0,>=1.17.0 in
/usr/local/lib/python3.11/dist-packages (from aiohttp->datasets) (1.18.3)
Requirement already satisfied: typing-extensions>=3.7.4.3 in
/usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.24.0->datasets)
(4.12.2)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.11/dist-packages (from requests>=2.32.2->datasets)
(3.4.1)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-
packages (from requests>=2.32.2->datasets) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.11/dist-packages (from requests>=2.32.2->datasets)
(2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.11/dist-packages (from requests>=2.32.2->datasets)
(2025.1.31)
Requirement already satisfied: python-dateutil>=2.8.2 in
/usr/local/lib/python3.11/dist-packages (from pandas->datasets) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-
packages (from pandas->datasets) (2025.1)
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.11/dist-
packages (from pandas->datasets) (2025.1)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.11/dist-

```
packages (from python-dateutil>=2.8.2->pandas->datasets) (1.17.0)
Downloading datasets-3.3.2-py3-none-any.whl (485 kB)
                        485.4/485.4 kB
15.7 MB/s eta 0:00:00
Downloading dill-0.3.8-py3-none-any.whl (116 kB)
                        116.3/116.3 kB
10.3 MB/s eta 0:00:00
Downloading multiprocess-0.70.16-py311-none-any.whl (143 kB)
                        143.5/143.5 kB
10.9 MB/s eta 0:00:00
Downloading
xxhash-3.5.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (194 kB)
                        194.8/194.8 kB
17.3 MB/s eta 0:00:00
Installing collected packages: xxhash, dill, multiprocess, datasets
Successfully installed datasets-3.3.2 dill-0.3.8 multiprocess-0.70.16
xxhash-3.5.0
Requirement already satisfied: tensorflow_addons in
/usr/local/lib/python3.11/dist-packages (0.23.0)
Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-
packages (from tensorflow_addons) (24.2)
Requirement already satisfied: typeguard<3.0.0,>=2.7 in
/usr/local/lib/python3.11/dist-packages (from tensorflow_addons) (2.13.3)
Collecting keras<3.0.0
  Downloading keras-2.15.0-py3-none-any.whl.metadata (2.4 kB)
Collecting mediapipe-model-maker
  Downloading mediapipe_model_maker-0.2.1.4-py3-none-any.whl.metadata (1.7 kB)
Requirement already satisfied: absl-py in /usr/local/lib/python3.11/dist-
packages (from mediapipe-model-maker) (1.4.0)
Collecting mediapipe>=0.10.0 (from mediapipe-model-maker)
  Downloading mediapipe-0.10.21-cp311-cp311-manylinux_2_28_x86_64.whl.metadata
(9.7 kB)
Requirement already satisfied: numpy in /usr/local/lib/python3.11/dist-packages
(from mediapipe-model-maker) (1.26.4)
Requirement already satisfied: opencv-python in /usr/local/lib/python3.11/dist-
packages (from mediapipe-model-maker) (4.11.0.86)
Collecting tensorflow<2.16,>=2.10 (from mediapipe-model-maker)
  Downloading tensorflow-2.15.1-cp311-cp311-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (4.2 kB)
Requirement already satisfied: tensorflow-addons in
/usr/local/lib/python3.11/dist-packages (from mediapipe-model-maker) (0.23.0)
Requirement already satisfied: tensorflow-datasets in
/usr/local/lib/python3.11/dist-packages (from mediapipe-model-maker) (4.9.7)
Requirement already satisfied: tensorflow-hub in /usr/local/lib/python3.11/dist-
packages (from mediapipe-model-maker) (0.16.1)
Collecting tensorflow-model-optimization<0.8.0 (from mediapipe-model-maker)
  Downloading tensorflow_model_optimization-0.7.5-py2.py3-none-any.whl.metadata
(914 bytes)
```

Requirement already satisfied: tensorflow-text in
/usr/local/lib/python3.11/dist-packages (from mediapipe-model-maker) (2.18.1)
Collecting tf-models-official<2.16.0,>=2.13.2 (from mediapipe-model-maker)
  Downloading tf_models_official-2.15.0-py2.py3-none-any.whl.metadata (1.4 kB)
Requirement already satisfied: attrs>=19.1.0 in /usr/local/lib/python3.11/dist-
packages (from mediapipe>=0.10.0->mediapipe-model-maker) (25.1.0)
Requirement already satisfied: flatbuffers>=2.0 in
/usr/local/lib/python3.11/dist-packages (from mediapipe>=0.10.0->mediapipe-
model-maker) (25.2.10)
Requirement already satisfied: jax in /usr/local/lib/python3.11/dist-packages
(from mediapipe>=0.10.0->mediapipe-model-maker) (0.4.33)
Requirement already satisfied: jaxlib in /usr/local/lib/python3.11/dist-packages
(from mediapipe>=0.10.0->mediapipe-model-maker) (0.4.33)
Requirement already satisfied: matplotlib in /usr/local/lib/python3.11/dist-
packages (from mediapipe>=0.10.0->mediapipe-model-maker) (3.10.0)
Requirement already satisfied: opencv-contrib-python in
/usr/local/lib/python3.11/dist-packages (from mediapipe>=0.10.0->mediapipe-
model-maker) (4.11.0.86)
Requirement already satisfied: protobuf<5,>=4.25.3 in
/usr/local/lib/python3.11/dist-packages (from mediapipe>=0.10.0->mediapipe-
model-maker) (4.25.6)
Collecting sounddevice>=0.4.4 (from mediapipe>=0.10.0->mediapipe-model-maker)
  Downloading sounddevice-0.5.1-py3-none-any.whl.metadata (1.4 kB)
Requirement already satisfied: sentencepiece in /usr/local/lib/python3.11/dist-
packages (from mediapipe>=0.10.0->mediapipe-model-maker) (0.2.0)
Requirement already satisfied: astunparse>=1.6.0 in
/usr/local/lib/python3.11/dist-packages (from tensorflow<2.16,>=2.10->mediapipe-
model-maker) (1.6.3)
Requirement already satisfied: gast!=0.5.0,!=0.5.1,!=0.5.2,>=0.2.1 in
/usr/local/lib/python3.11/dist-packages (from tensorflow<2.16,>=2.10->mediapipe-
model-maker) (0.6.0)
Requirement already satisfied: google-pasta>=0.1.1 in
/usr/local/lib/python3.11/dist-packages (from tensorflow<2.16,>=2.10->mediapipe-
model-maker) (0.2.0)
Requirement already satisfied: h5py>=2.9.0 in /usr/local/lib/python3.11/dist-
packages (from tensorflow<2.16,>=2.10->mediapipe-model-maker) (3.12.1)
Requirement already satisfied: libclang>=13.0.0 in
/usr/local/lib/python3.11/dist-packages (from tensorflow<2.16,>=2.10->mediapipe-
model-maker) (18.1.1)
Collecting ml-dtypes~=0.3.1 (from tensorflow<2.16,>=2.10->mediapipe-model-maker)
  Downloading ml_dtypes-0.3.2-cp311-cp311-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (20 kB)
Requirement already satisfied: opt-einsum>=2.3.2 in
/usr/local/lib/python3.11/dist-packages (from tensorflow<2.16,>=2.10->mediapipe-
model-maker) (3.4.0)
Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-
packages (from tensorflow<2.16,>=2.10->mediapipe-model-maker) (24.2)
Requirement already satisfied: setuptools in /usr/local/lib/python3.11/dist-

packages (from tensorflow<2.16,>=2.10->mediapipe-model-maker) (75.1.0)
Requirement already satisfied: six>=1.12.0 in /usr/local/lib/python3.11/dist-
packages (from tensorflow<2.16,>=2.10->mediapipe-model-maker) (1.17.0)
Requirement already satisfied: termcolor>=1.1.0 in
/usr/local/lib/python3.11/dist-packages (from tensorflow<2.16,>=2.10->mediapipe-
model-maker) (2.5.0)
Requirement already satisfied: typing-extensions>=3.6.6 in
/usr/local/lib/python3.11/dist-packages (from tensorflow<2.16,>=2.10->mediapipe-
model-maker) (4.12.2)
Collecting wrapt<1.15,>=1.11.0 (from tensorflow<2.16,>=2.10->mediapipe-model-
maker)
  Downloading wrapt-1.14.1-cp311-cp311-
manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_6
4.whl.metadata (6.7 kB)
Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.23.1 in
/usr/local/lib/python3.11/dist-packages (from tensorflow<2.16,>=2.10->mediapipe-
model-maker) (0.37.1)
Requirement already satisfied: grpcio<2.0,>=1.24.3 in
/usr/local/lib/python3.11/dist-packages (from tensorflow<2.16,>=2.10->mediapipe-
model-maker) (1.70.0)
Collecting tensorboard<2.16,>=2.15 (from tensorflow<2.16,>=2.10->mediapipe-
model-maker)
  Downloading tensorboard-2.15.2-py3-none-any.whl.metadata (1.7 kB)
Collecting tensorflow-estimator<2.16,>=2.15.0 (from
tensorflow<2.16,>=2.10->mediapipe-model-maker)
  Downloading tensorflow_estimator-2.15.0-py2.py3-none-any.whl.metadata (1.3 kB)
Requirement already satisfied: dm-tree~=0.1.1 in /usr/local/lib/python3.11/dist-
packages (from tensorflow-model-optimization<0.8.0->mediapipe-model-maker)
(0.1.9)
Requirement already satisfied: Cython in /usr/local/lib/python3.11/dist-packages
(from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker) (3.0.12)
Requirement already satisfied: Pillow in /usr/local/lib/python3.11/dist-packages
(from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker) (11.1.0)
Requirement already satisfied: gin-config in /usr/local/lib/python3.11/dist-
packages (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(0.5.0)
Requirement already satisfied: google-api-python-client>=1.6.7 in
/usr/local/lib/python3.11/dist-packages (from tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (2.160.0)
Requirement already satisfied: immutabledict in /usr/local/lib/python3.11/dist-
packages (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(4.2.1)
Requirement already satisfied: kaggle>=1.3.9 in /usr/local/lib/python3.11/dist-
packages (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(1.6.17)
Requirement already satisfied: oauth2client in /usr/local/lib/python3.11/dist-
packages (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(4.1.3)

Requirement already satisfied: opencv-python-headless in
/usr/local/lib/python3.11/dist-packages (from tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (4.11.0.86)
Requirement already satisfied: pandas>=0.22.0 in /usr/local/lib/python3.11/dist-
packages (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(2.2.2)
Requirement already satisfied: psutil>=5.4.3 in /usr/local/lib/python3.11/dist-
packages (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(5.9.5)
Requirement already satisfied: py-cpuinfo>=3.3.0 in
/usr/local/lib/python3.11/dist-packages (from tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (9.0.0)
Requirement already satisfied: pycocotools in /usr/local/lib/python3.11/dist-
packages (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(2.0.8)
Requirement already satisfied: pyyaml>=6.0.0 in /usr/local/lib/python3.11/dist-
packages (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(6.0.2)
Collecting sacrebleu (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-
maker)
  Downloading sacrebleu-2.5.1-py3-none-any.whl.metadata (51 kB)
                            51.8/51.8 kB
5.1 MB/s eta 0:00:00
Requirement already satisfied: scipy>=0.19.1 in
/usr/local/lib/python3.11/dist-packages (from tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (1.13.1)
Collecting seqeval (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-
maker)
  Downloading seqeval-1.2.2.tar.gz (43 kB)
                            43.6/43.6 kB
4.2 MB/s eta 0:00:00
  Preparing metadata (setup.py) … done
Collecting tensorflow-text (from mediapipe-model-maker)
  Downloading tensorflow_text-2.15.0-cp311-cp311-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (1.9 kB)
Requirement already satisfied: tf-slim>=1.1.0 in /usr/local/lib/python3.11/dist-
packages (from tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(1.1.0)
Requirement already satisfied: tf-keras>=2.14.1 in
/usr/local/lib/python3.11/dist-packages (from tensorflow-hub->mediapipe-model-
maker) (2.18.0)
Requirement already satisfied: typeguard<3.0.0,>=2.7 in
/usr/local/lib/python3.11/dist-packages (from tensorflow-addons->mediapipe-
model-maker) (2.13.3)
Requirement already satisfied: click in /usr/local/lib/python3.11/dist-packages
(from tensorflow-datasets->mediapipe-model-maker) (8.1.8)
Requirement already satisfied: promise in /usr/local/lib/python3.11/dist-
packages (from tensorflow-datasets->mediapipe-model-maker) (2.3)

Requirement already satisfied: pyarrow in /usr/local/lib/python3.11/dist-packages (from tensorflow-datasets->mediapipe-model-maker) (17.0.0)
Requirement already satisfied: requests>=2.19.0 in /usr/local/lib/python3.11/dist-packages (from tensorflow-datasets->mediapipe-model-maker) (2.32.3)
Requirement already satisfied: simple-parsing in /usr/local/lib/python3.11/dist-packages (from tensorflow-datasets->mediapipe-model-maker) (0.1.7)
Requirement already satisfied: tensorflow-metadata in /usr/local/lib/python3.11/dist-packages (from tensorflow-datasets->mediapipe-model-maker) (1.16.1)
Requirement already satisfied: toml in /usr/local/lib/python3.11/dist-packages (from tensorflow-datasets->mediapipe-model-maker) (0.10.2)
Requirement already satisfied: tqdm in /usr/local/lib/python3.11/dist-packages (from tensorflow-datasets->mediapipe-model-maker) (4.67.1)
Requirement already satisfied: array-record>=0.5.0 in /usr/local/lib/python3.11/dist-packages (from tensorflow-datasets->mediapipe-model-maker) (0.6.0)
Requirement already satisfied: etils>=1.9.1 in /usr/local/lib/python3.11/dist-packages (from etils[edc,enp,epath,epy,etree]>=1.9.1; python_version >= "3.11"->tensorflow-datasets->mediapipe-model-maker) (1.12.0)
Requirement already satisfied: wheel<1.0,>=0.23.0 in /usr/local/lib/python3.11/dist-packages (from astunparse>=1.6.0->tensorflow<2.16,>=2.10->mediapipe-model-maker) (0.45.1)
Requirement already satisfied: fsspec in /usr/local/lib/python3.11/dist-packages (from etils[edc,enp,epath,epy,etree]>=1.9.1; python_version >= "3.11"->tensorflow-datasets->mediapipe-model-maker) (2024.10.0)
Requirement already satisfied: importlib_resources in /usr/local/lib/python3.11/dist-packages (from etils[edc,enp,epath,epy,etree]>=1.9.1; python_version >= "3.11"->tensorflow-datasets->mediapipe-model-maker) (6.5.2)
Requirement already satisfied: zipp in /usr/local/lib/python3.11/dist-packages (from etils[edc,enp,epath,epy,etree]>=1.9.1; python_version >= "3.11"->tensorflow-datasets->mediapipe-model-maker) (3.21.0)
Requirement already satisfied: httplib2<1.dev0,>=0.19.0 in /usr/local/lib/python3.11/dist-packages (from google-api-python-client>=1.6.7->tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker) (0.22.0)
Requirement already satisfied: google-auth!=2.24.0,!=2.25.0,<3.0.0.dev0,>=1.32.0 in /usr/local/lib/python3.11/dist-packages (from google-api-python-client>=1.6.7->tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker) (2.27.0)
Requirement already satisfied: google-auth-httplib2<1.0.0,>=0.2.0 in /usr/local/lib/python3.11/dist-packages (from google-api-python-client>=1.6.7->tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker) (0.2.0)
Requirement already satisfied: google-api-core!=2.0.*,!=2.1.*,!=2.2.*,!=2.3.0,<3.0.0.dev0,>=1.31.5 in /usr/local/lib/python3.11/dist-packages (from google-api-python-

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client>=1.6.7->tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(2.19.2)
Requirement already satisfied: uritemplate<5,>=3.0.1 in
/usr/local/lib/python3.11/dist-packages (from google-api-python-
client>=1.6.7->tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(4.1.1)
Requirement already satisfied: certifi>=2023.7.22 in
/usr/local/lib/python3.11/dist-packages (from kaggle>=1.3.9->tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (2025.1.31)
Requirement already satisfied: python-dateutil in
/usr/local/lib/python3.11/dist-packages (from kaggle>=1.3.9->tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (2.8.2)
Requirement already satisfied: python-slugify in /usr/local/lib/python3.11/dist-
packages (from kaggle>=1.3.9->tf-models-official<2.16.0,>=2.13.2->mediapipe-
model-maker) (8.0.4)
Requirement already satisfied: urllib3 in /usr/local/lib/python3.11/dist-
packages (from kaggle>=1.3.9->tf-models-official<2.16.0,>=2.13.2->mediapipe-
model-maker) (2.3.0)
Requirement already satisfied: bleach in /usr/local/lib/python3.11/dist-packages
(from kaggle>=1.3.9->tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(6.2.0)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-
packages (from pandas>=0.22.0->tf-models-official<2.16.0,>=2.13.2->mediapipe-
model-maker) (2025.1)
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.11/dist-
packages (from pandas>=0.22.0->tf-models-official<2.16.0,>=2.13.2->mediapipe-
model-maker) (2025.1)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.11/dist-packages (from requests>=2.19.0->tensorflow-
datasets->mediapipe-model-maker) (3.4.1)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-
packages (from requests>=2.19.0->tensorflow-datasets->mediapipe-model-maker)
(3.10)
Requirement already satisfied: CFFI>=1.0 in /usr/local/lib/python3.11/dist-
packages (from sounddevice>=0.4.4->mediapipe>=0.10.0->mediapipe-model-maker)
(1.17.1)
Requirement already satisfied: google-auth-oauthlib<2,>=0.5 in
/usr/local/lib/python3.11/dist-packages (from
tensorboard<2.16,>=2.15->tensorflow<2.16,>=2.10->mediapipe-model-maker) (1.2.1)
Requirement already satisfied: markdown>=2.6.8 in
/usr/local/lib/python3.11/dist-packages (from
tensorboard<2.16,>=2.15->tensorflow<2.16,>=2.10->mediapipe-model-maker) (3.7)
Requirement already satisfied: tensorboard-data-server<0.8.0,>=0.7.0 in
/usr/local/lib/python3.11/dist-packages (from
tensorboard<2.16,>=2.15->tensorflow<2.16,>=2.10->mediapipe-model-maker) (0.7.2)
Requirement already satisfied: werkzeug>=1.0.1 in
/usr/local/lib/python3.11/dist-packages (from
tensorboard<2.16,>=2.15->tensorflow<2.16,>=2.10->mediapipe-model-maker) (3.1.3)

```
INFO: pip is looking at multiple versions of tf-keras to determine which version
is compatible with other requirements. This could take a while.
Collecting tf-keras>=2.14.1 (from tensorflow-hub->mediapipe-model-maker)
  Downloading tf_keras-2.17.0-py3-none-any.whl.metadata (1.6 kB)
  Downloading tf_keras-2.16.0-py3-none-any.whl.metadata (1.6 kB)
  Downloading tf_keras-2.15.1-py3-none-any.whl.metadata (1.7 kB)
Requirement already satisfied: contourpy>=1.0.1 in
/usr/local/lib/python3.11/dist-packages (from
matplotlib->mediapipe>=0.10.0->mediapipe-model-maker) (1.3.1)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.11/dist-
packages (from matplotlib->mediapipe>=0.10.0->mediapipe-model-maker) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in
/usr/local/lib/python3.11/dist-packages (from
matplotlib->mediapipe>=0.10.0->mediapipe-model-maker) (4.56.0)
Requirement already satisfied: kiwisolver>=1.3.1 in
/usr/local/lib/python3.11/dist-packages (from
matplotlib->mediapipe>=0.10.0->mediapipe-model-maker) (1.4.8)
Requirement already satisfied: pyparsing>=2.3.1 in
/usr/local/lib/python3.11/dist-packages (from
matplotlib->mediapipe>=0.10.0->mediapipe-model-maker) (3.2.1)
Requirement already satisfied: pyasn1>=0.1.7 in /usr/local/lib/python3.11/dist-
packages (from oauth2client->tf-models-official<2.16.0,>=2.13.2->mediapipe-
model-maker) (0.6.1)
Requirement already satisfied: pyasn1-modules>=0.0.5 in
/usr/local/lib/python3.11/dist-packages (from oauth2client->tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (0.4.1)
Requirement already satisfied: rsa>=3.1.4 in /usr/local/lib/python3.11/dist-
packages (from oauth2client->tf-models-official<2.16.0,>=2.13.2->mediapipe-
model-maker) (4.9)
Collecting portalocker (from sacrebleu->tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker)
  Downloading portalocker-3.1.1-py3-none-any.whl.metadata (8.6 kB)
Requirement already satisfied: regex in /usr/local/lib/python3.11/dist-packages
(from sacrebleu->tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(2024.11.6)
Requirement already satisfied: tabulate>=0.8.9 in
/usr/local/lib/python3.11/dist-packages (from sacrebleu->tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (0.9.0)
Collecting colorama (from sacrebleu->tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker)
  Downloading colorama-0.4.6-py2.py3-none-any.whl.metadata (17 kB)
Requirement already satisfied: lxml in /usr/local/lib/python3.11/dist-packages
(from sacrebleu->tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(5.3.1)
Requirement already satisfied: scikit-learn>=0.21.3 in
/usr/local/lib/python3.11/dist-packages (from seqeval->tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (1.6.1)
Requirement already satisfied: docstring-parser<1.0,>=0.15 in
```

/usr/local/lib/python3.11/dist-packages (from simple-parsing->tensorflow-
datasets->mediapipe-model-maker) (0.16)
Requirement already satisfied: googleapis-common-protos<2,>=1.56.4 in
/usr/local/lib/python3.11/dist-packages (from tensorflow-metadata->tensorflow-
datasets->mediapipe-model-maker) (1.67.0)
Requirement already satisfied: pycparser in /usr/local/lib/python3.11/dist-
packages (from CFFI>=1.0->sounddevice>=0.4.4->mediapipe>=0.10.0->mediapipe-
model-maker) (2.22)
Requirement already satisfied: proto-plus<2.0.0dev,>=1.22.3 in
/usr/local/lib/python3.11/dist-packages (from google-api-
core!=2.0.*,!=2.1.*,!=2.2.*,!=2.3.0,<3.0.0.dev0,>=1.31.5->google-api-python-
client>=1.6.7->tf-models-official<2.16.0,>=2.13.2->mediapipe-model-maker)
(1.26.0)
Requirement already satisfied: cachetools<6.0,>=2.0.0 in
/usr/local/lib/python3.11/dist-packages (from google-
auth!=2.24.0,!=2.25.0,<3.0.0.dev0,>=1.32.0->google-api-python-client>=1.6.7->tf-
models-official<2.16.0,>=2.13.2->mediapipe-model-maker) (5.5.1)
Requirement already satisfied: requests-oauthlib>=0.7.0 in
/usr/local/lib/python3.11/dist-packages (from google-auth-
oauthlib<2,>=0.5->tensorboard<2.16,>=2.15->tensorflow<2.16,>=2.10->mediapipe-
model-maker) (2.0.0)
Requirement already satisfied: joblib>=1.2.0 in /usr/local/lib/python3.11/dist-
packages (from scikit-learn>=0.21.3->seqeval->tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (1.4.2)
Requirement already satisfied: threadpoolctl>=3.1.0 in
/usr/local/lib/python3.11/dist-packages (from scikit-learn>=0.21.3->seqeval->tf-
models-official<2.16.0,>=2.13.2->mediapipe-model-maker) (3.5.0)
Requirement already satisfied: MarkupSafe>=2.1.1 in
/usr/local/lib/python3.11/dist-packages (from
werkzeug>=1.0.1->tensorboard<2.16,>=2.15->tensorflow<2.16,>=2.10->mediapipe-
model-maker) (3.0.2)
Requirement already satisfied: webencodings in /usr/local/lib/python3.11/dist-
packages (from bleach->kaggle>=1.3.9->tf-models-
official<2.16.0,>=2.13.2->mediapipe-model-maker) (0.5.1)
Requirement already satisfied: text-unidecode>=1.3 in
/usr/local/lib/python3.11/dist-packages (from python-slugify->kaggle>=1.3.9->tf-
models-official<2.16.0,>=2.13.2->mediapipe-model-maker) (1.3)
Requirement already satisfied: oauthlib>=3.0.0 in
/usr/local/lib/python3.11/dist-packages (from requests-oauthlib>=0.7.0->google-
auth-
oauthlib<2,>=0.5->tensorboard<2.16,>=2.15->tensorflow<2.16,>=2.10->mediapipe-
model-maker) (3.2.2)
Downloading keras-2.15.0-py3-none-any.whl (1.7 MB)
                          1.7/1.7 MB
43.7 MB/s eta 0:00:00
Downloading mediapipe_model_maker-0.2.1.4-py3-none-any.whl (133 kB)
                          133.3/133.3 kB
14.4 MB/s eta 0:00:00

```
Downloading mediapipe-0.10.21-cp311-cp311-manylinux_2_28_x86_64.whl (35.6
MB)
                         35.6/35.6 MB
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tensorflow-2.15.1-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl
(475.3 MB)
                         475.3/475.3 MB
3.4 MB/s eta 0:00:00
Downloading tensorflow_model_optimization-0.7.5-py2.py3-none-any.whl (241
kB)
                         241.2/241.2 kB
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Downloading tf_models_official-2.15.0-py2.py3-none-any.whl (2.7 MB)
                         2.7/2.7 MB
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Downloading tensorflow_text-2.15.0-cp311-cp311-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl (5.2 MB)
                         5.2/5.2 MB
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ml_dtypes-0.3.2-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (2.2
MB)
                         2.2/2.2 MB
57.5 MB/s eta 0:00:00
Downloading sounddevice-0.5.1-py3-none-any.whl (32 kB)
Downloading tensorboard-2.15.2-py3-none-any.whl (5.5 MB)
                         5.5/5.5 MB
82.6 MB/s eta 0:00:00
Downloading tensorflow_estimator-2.15.0-py2.py3-none-any.whl (441 kB)
                         442.0/442.0 kB
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Downloading tf_keras-2.15.1-py3-none-any.whl (1.7 MB)
                         1.7/1.7 MB
67.5 MB/s eta 0:00:00
Downloading wrapt-1.14.1-cp311-cp311-
manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_6
4.whl (78 kB)
                         78.4/78.4 kB
7.9 MB/s eta 0:00:00
Downloading sacrebleu-2.5.1-py3-none-any.whl (104 kB)
                         104.1/104.1 kB
11.2 MB/s eta 0:00:00
Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Downloading portalocker-3.1.1-py3-none-any.whl (19 kB)
Building wheels for collected packages: seqeval
  Building wheel for seqeval (setup.py) … done
  Created wheel for seqeval: filename=seqeval-1.2.2-py3-none-any.whl size=16161
```

```
sha256=81c67ceb7d5f3a00ee4937e651512b336a03bd7143e665c9160003ef1fa5e9de
  Stored in directory: /root/.cache/pip/wheels/bc/92/f0/243288f899c2eacdfa8c5f9a
ede4c71a9bad0ee26a01dc5ead
Successfully built seqeval
Installing collected packages: wrapt, tensorflow-estimator, portalocker, ml-
dtypes, keras, colorama, sounddevice, sacrebleu, tensorflow-model-optimization,
seqeval, tensorboard, mediapipe, tensorflow, tf-keras, tensorflow-text, tf-
models-official, mediapipe-model-maker
  Attempting uninstall: wrapt
    Found existing installation: wrapt 1.17.2
    Uninstalling wrapt-1.17.2:
      Successfully uninstalled wrapt-1.17.2
  Attempting uninstall: ml-dtypes
    Found existing installation: ml-dtypes 0.4.1
    Uninstalling ml-dtypes-0.4.1:
      Successfully uninstalled ml-dtypes-0.4.1
  Attempting uninstall: keras
    Found existing installation: keras 3.8.0
    Uninstalling keras-3.8.0:
      Successfully uninstalled keras-3.8.0
  Attempting uninstall: tensorboard
    Found existing installation: tensorboard 2.18.0
    Uninstalling tensorboard-2.18.0:
      Successfully uninstalled tensorboard-2.18.0
  Attempting uninstall: tensorflow
    Found existing installation: tensorflow 2.18.0
    Uninstalling tensorflow-2.18.0:
      Successfully uninstalled tensorflow-2.18.0
  Attempting uninstall: tf-keras
    Found existing installation: tf_keras 2.18.0
    Uninstalling tf_keras-2.18.0:
      Successfully uninstalled tf_keras-2.18.0
  Attempting uninstall: tensorflow-text
    Found existing installation: tensorflow-text 2.18.1
    Uninstalling tensorflow-text-2.18.1:
      Successfully uninstalled tensorflow-text-2.18.1
ERROR: pip's dependency resolver does not currently take into account all

the packages that are installed. This behaviour is the source of the following

dependency conflicts.

dopamine-rl 4.1.2 requires tf-keras>=2.18.0, but you have tf-keras 2.15.1 which

is incompatible.

Successfully installed colorama-0.4.6 keras-2.15.0 mediapipe-0.10.21
mediapipe-model-maker-0.2.1.4 ml-dtypes-0.3.2 portalocker-3.1.1 sacrebleu-2.5.1
seqeval-1.2.2 sounddevice-0.5.1 tensorboard-2.15.2 tensorflow-2.15.1 tensorflow-
estimator-2.15.0 tensorflow-model-optimization-0.7.5 tensorflow-text-2.15.0 tf-
```

```
keras-2.15.1 tf-models-official-2.15.0 wrapt-1.14.1
```

```python
[47]: from keras.models import Model
      from tensorflow.keras.layers import Input
      from tensorflow_addons.utils.types import FloatTensorLike, TensorLike

      # LSTM components
      from keras.layers import LSTM, Embedding, Dense, TimeDistributed, Dropout,␣
       ↪Bidirectional

      # CRF layer
      from tensorflow_addons.layers import CRF

      # Sigmoid focal cross entropy loss. works well with highly unbalanced input data
      from tensorflow_addons.losses import SigmoidFocalCrossEntropy
      from tensorflow_addons.optimizers import AdamW


      def build_model():
        # Model definition
        input = Input(shape=(max_len,))

        # Get embeddings
        embeddings = Embedding(input_dim=embedding_matrix.shape[0],
                          output_dim=embedding_dim,
                          input_length=max_len, mask_zero=True,
                          embeddings_initializer=tf.keras.initializers.
       ↪Constant(embedding_matrix)
                        )(input)

        # variational biLSTM
        output_sequences = Bidirectional(LSTM(units=50,␣
       ↪return_sequences=True))(embeddings)

        # Stacking
        output_sequences = Bidirectional(LSTM(units=50,␣
       ↪return_sequences=True))(output_sequences)

        # Adding more non-linearity
        dense_out = TimeDistributed(Dense(25, activation="relu"))(output_sequences)

        # CRF layer
        crf = CRF(len(schema), name='crf')
        predicted_sequence, potentials, sequence_length, crf_kernel = crf(dense_out)

        model = Model(input, potentials)
        model.compile(
```

```python
      optimizer=AdamW(weight_decay=0.001),
      loss= SigmoidFocalCrossEntropy()) # Sigmoid focal cross entropy loss

  return model

model = build_model()

# Checkpointing
save_model = tf.keras.callbacks.ModelCheckpoint(filepath='twitter_ner_crf.h5',
  monitor='val_loss',
  save_weights_only=True,
  save_best_only=True,
  verbose=1
)

# Early stoppings
es = tf.keras.callbacks.EarlyStopping(monitor='val_loss', verbose=1, patience=5)

callbacks = [save_model, es]

model.summary()
```

```
Model: "model_4"

_____
 Layer (type)                Output Shape              Param #
=================================================================
 input_6 (InputLayer)        [(None, 39)]              0

 embedding_4 (Embedding)     (None, 39, 200)           3141800

 bidirectional_8 (Bidirecti  (None, 39, 100)           100400
 onal)

 bidirectional_9 (Bidirecti  (None, 39, 100)           60400
 onal)

 time_distributed_4 (TimeDi  (None, 39, 25)            2525
 stributed)

 crf (CRF)                   [(None, 39),              1100
                              (None, 39, 22),
                              (None,),
                              (22, 22)]


=================================================================
Total params: 3306225 (12.61 MB)
Trainable params: 3306225 (12.61 MB)
Non-trainable params: 0 (0.00 Byte)
```

```
---------------------------------------------------------------
```

```
[48]: len(schema), len(tag2id),train_labels.shape
```

```
[48]: (22, 22, (3996, 39, 22))
```

```
[53]: history = model.fit(train_sequences, train_labels,
            validation_data = (val_sequences, val_labels),
            epochs = 100,
            callbacks  = callbacks,
            shuffle=True)
```

```
Epoch 1/100
125/125 [==============================] - ETA: 0s - loss: 0.0254
Epoch 1: val_loss did not improve from 0.04324
125/125 [==============================] - 15s 122ms/step - loss: 0.0254 -
val_loss: 0.0484
Epoch 2/100
125/125 [==============================] - ETA: 0s - loss: 0.0207
Epoch 2: val_loss did not improve from 0.04324
125/125 [==============================] - 15s 122ms/step - loss: 0.0207 -
val_loss: 0.0622
Epoch 3/100
125/125 [==============================] - ETA: 0s - loss: 0.0186
Epoch 3: val_loss did not improve from 0.04324
125/125 [==============================] - 16s 128ms/step - loss: 0.0186 -
val_loss: 0.0866
Epoch 4/100
125/125 [==============================] - ETA: 0s - loss: 0.0172
Epoch 4: val_loss did not improve from 0.04324
125/125 [==============================] - 15s 123ms/step - loss: 0.0172 -
val_loss: 0.1114
Epoch 5/100
125/125 [==============================] - ETA: 0s - loss: 0.0159
Epoch 5: val_loss did not improve from 0.04324
125/125 [==============================] - 15s 122ms/step - loss: 0.0159 -
val_loss: 0.1473
Epoch 6/100
125/125 [==============================] - ETA: 0s - loss: 0.0149
Epoch 6: val_loss did not improve from 0.04324
125/125 [==============================] - 16s 129ms/step - loss: 0.0149 -
val_loss: 0.1836
Epoch 6: early stopping
```

```
[55]: model.load_weights('twitter_ner_crf.h5')
```

```
[56]: crf_model = tf.keras.Model(inputs=model.input, outputs=[model.output, model.
      ↪get_layer('crf').output, model.input])
```

```
[60]:  import matplotlib.pyplot as plt
       # Plot training vs validation loss
       plt.figure(figsize=(10, 5))
       plt.plot(history.history['loss'], label='Training loss')
       plt.plot(history.history['val_loss'], label='Validation loss')
       plt.title('LSTM-CRF Model loss')
       plt.xlabel('Epochs')
       plt.ylabel('loss')
       plt.legend()
       plt.show()
```
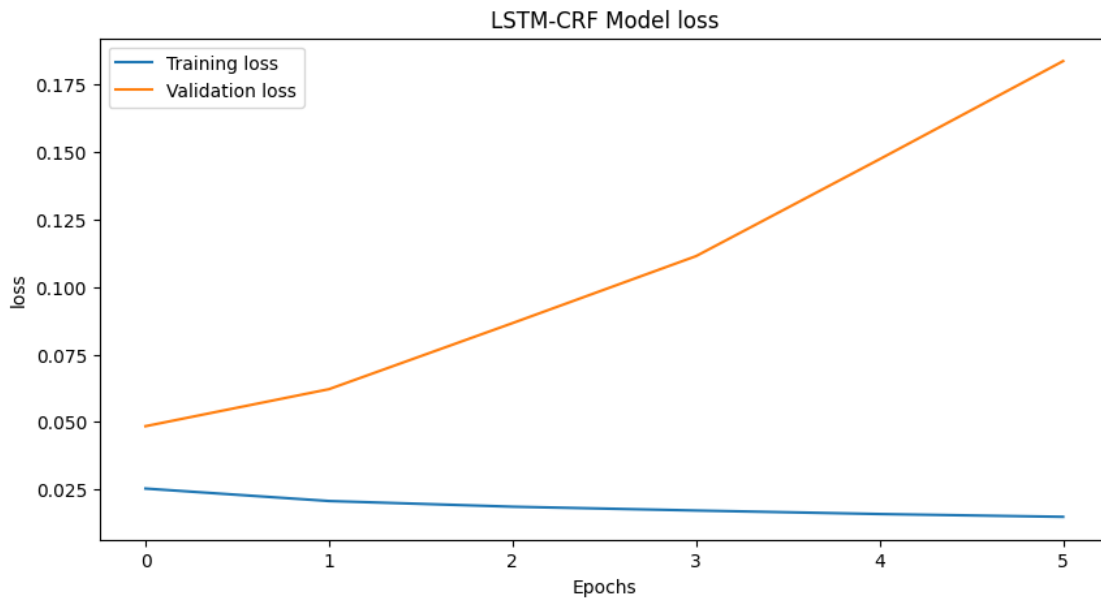

Observation > Model training and validation lossess are diverging, So underfitted model.

```
[65]:  from sklearn.metrics import classification_report,accuracy_score
       # Evaluate on train data
       train_pred = model.predict(train_sequences, verbose=1)
       train_pred_labels = np.argmax(train_pred, axis=-1)
       train_true_labels = np.argmax(train_labels, axis=-1)

       # Flatten predictions for metrics
       y_true, y_pred = [], []
       for i in range(len(train_true_labels)):
           for j in range(len(train_true_labels[i])):
               if train_true_labels[i][j] != tag2id["O"]:
                   y_true.append(id2tag[train_true_labels[i][j]])
                   y_pred.append(id2tag[train_pred_labels[i][j]])
```

```python
# Classification report
print("Classification Report:")
print(classification_report(y_true, y_pred))

# Accuracy score
acc = accuracy_score(y_true, y_pred)
print(f"train Accuracy: {acc:.4f}")
```

```
125/125 [==============================] - 4s 35ms/step
Classification Report:
               precision    recall  f1-score   support

    B-company       1.00      0.00      0.01       485
   B-facility       0.00      0.00      0.00       225
    B-geo-loc       0.16      0.04      0.07       730
      B-movie       0.00      0.00      0.00        43
B-musicartist       0.00      0.00      0.00       157
      B-other       0.00      0.00      0.00       494
     B-person       0.23      0.05      0.08       595
    B-product       0.00      0.00      0.00       237
  B-sportsteam       0.00      0.00      0.00       122
     B-tvshow       0.00      0.00      0.00        40
    I-company       0.00      0.00      0.00       169
   I-facility       0.00      0.00      0.00       307
    I-geo-loc       0.00      0.00      0.00       139
      I-movie       0.00      0.00      0.00        67
I-musicartist       0.00      0.00      0.00       120
      I-other       0.36      0.06      0.10       550
     I-person       0.00      0.00      0.00       330
    I-product       1.00      0.00      0.01       395
  I-sportsteam       0.00      0.00      0.00        34
     I-tvshow       0.00      0.00      0.00        48
            O       0.00      0.00      0.00         0

     accuracy                           0.02      5287
    macro avg       0.13      0.01      0.01      5287
 weighted avg       0.25      0.02      0.03      5287


train Accuracy: 0.0180

/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
```

```
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
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with no predicted samples. Use `zero_division` parameter to control this
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with no true samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
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    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

```python
[66]: from sklearn.metrics import classification_report,accuracy_score
      # Evaluate on val data
      val_pred = model.predict(val_sequences, verbose=1)
      val_pred_labels = np.argmax(val_pred, axis=-1)
      val_true_labels = np.argmax(val_labels, axis=-1)

      # Flatten predictions for metrics
      y_true, y_pred = [], []
      for i in range(len(val_true_labels)):
          for j in range(len(val_true_labels[i])):
              if val_true_labels[i][j] != tag2id["O"]:
                  y_true.append(id2tag[val_true_labels[i][j]])
                  y_pred.append(id2tag[val_pred_labels[i][j]])

      # Classification report
      print("Classification Report:")
      print(classification_report(y_true, y_pred))

      # Accuracy score
      acc = accuracy_score(y_true, y_pred)
      print(f"val Accuracy: {acc:.4f}")
```

```
32/32 [==============================] - 2s 46ms/step
Classification Report:
              precision    recall  f1-score   support

   B-company       0.00      0.00      0.00       135
  B-facility       0.00      0.00      0.00        63
```

160

	precision	recall	f1-score	support
B-geo-loc	0.20	0.03	0.06	204
B-movie	0.00	0.00	0.00	14
B-musicartist	0.00	0.00	0.00	35
B-other	0.00	0.00	0.00	133
B-person	0.00	0.00	0.00	155
B-product	0.00	0.00	0.00	61
B-sportsteam	0.00	0.00	0.00	32
B-tvshow	0.00	0.00	0.00	13
I-company	0.00	0.00	0.00	64
I-facility	0.00	0.00	0.00	85
I-geo-loc	0.00	0.00	0.00	43
I-movie	0.00	0.00	0.00	15
I-musicartist	0.00	0.00	0.00	32
I-other	0.25	0.01	0.01	151
I-person	0.00	0.00	0.00	86
I-product	0.00	0.00	0.00	115
I-sportsteam	0.00	0.00	0.00	16
I-tvshow	0.00	0.00	0.00	9
O	0.00	0.00	0.00	0
accuracy			0.01	1461
macro avg	0.02	0.00	0.00	1461
weighted avg	0.05	0.01	0.01	1461

val Accuracy: 0.0055

/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
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/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.

```
_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

```python
from sklearn.metrics import classification_report,accuracy_score
# Evaluate on test data
test_pred = model.predict(test_sequences, verbose=1)
test_pred_labels = np.argmax(test_pred, axis=-1)
test_true_labels = np.argmax(test_labels, axis=-1)

# Flatten predictions for metrics
y_true, y_pred = [], []
for i in range(len(test_true_labels)):
    for j in range(len(test_true_labels[i])):
        if test_true_labels[i][j] != tag2id["O"]:
            y_true.append(id2tag[test_true_labels[i][j]])
            y_pred.append(id2tag[test_pred_labels[i][j]])

# Classification report
print("Classification Report:")
print(classification_report(y_true, y_pred))

# Accuracy score
acc = accuracy_score(y_true, y_pred)
print(f"Test Accuracy: {acc:.4f}")
```

```
40/40 [==============================] - 3s 72ms/step
Classification Report:
                precision    recall  f1-score   support

    B-company        0.00      0.00      0.00       172
   B-facility        0.00      0.00      0.00        69
    B-geo-loc        0.33      0.06      0.11       224
      B-movie        0.00      0.00      0.00        11
B-musicartist        0.00      0.00      0.00        54
      B-other        0.00      0.00      0.00       182
     B-person        0.33      0.02      0.03       181
    B-product        0.00      0.00      0.00        45
  B-sportsteam        0.00      0.00      0.00        44
     B-tvshow        0.00      0.00      0.00        14
    I-company        0.00      0.00      0.00        68
   I-facility        0.00      0.00      0.00        79
    I-geo-loc        0.00      0.00      0.00        86
      I-movie        0.00      0.00      0.00        12
I-musicartist        0.00      0.00      0.00        49
      I-other        0.75      0.03      0.07       175
```

```
         I-person       0.00       0.00       0.00        99
        I-product       0.00       0.00       0.00        70
     I-sportsteam       0.00       0.00       0.00        21
         I-tvshow       0.00       0.00       0.00        14
                O       0.00       0.00       0.00         0

         accuracy                             0.01      1669
        macro avg       0.07       0.01       0.01      1669
     weighted avg       0.16       0.01       0.02      1669
```

Test Accuracy: 0.0138

```
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
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  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

Observation > Model is not performing well. Possible reasons are Hyper parameter tuning is required.

5 HYPER PARAMETER TUNING OF LSTM + CRF

```
[67]: !pip install keras_tuner
```

```
Collecting keras_tuner
```

```python
[75]: # Hyperparameter tuning
import keras_tuner as kt

def build_model(hp):
    # Model definition
    input = Input(shape=(max_len,))

    # Embedding Layer
    embeddings = Embedding(
        input_dim=embedding_matrix.shape[0],
        output_dim=embedding_dim,
        input_length=max_len,
        mask_zero=True,
        embeddings_initializer=tf.keras.initializers.Constant(embedding_matrix)
    )(input)

    # Variational BiLSTM layers with hyperparameter tuning
    lstm_units = hp.Int('lstm_units', min_value=32, max_value=128, step=16)
    output_sequences = Bidirectional(LSTM(units=lstm_units,
 ↪return_sequences=True))(embeddings)
```

```python
    output_sequences = Bidirectional(LSTM(units=lstm_units,
↪return_sequences=True))(output_sequences)

    # Dropout layer
    dropout_rate = hp.Float('dropout_rate', min_value=0.1, max_value=0.5,
↪step=0.1)
    output_sequences = Dropout(dropout_rate)(output_sequences)

    # TimeDistributed Dense layer
    dense_units = hp.Int('dense_units', min_value=16, max_value=64, step=8)
    dense_out = TimeDistributed(Dense(dense_units,
↪activation="relu"))(output_sequences)

    # CRF layer
    crf = CRF(len(schema), name='crf')
    predicted_sequence, potentials, sequence_length, crf_kernel = crf(dense_out)

    # Optimizer with hyperparameter tuning
    learning_rate = hp.Float('learning_rate', min_value=1e-5, max_value=1e-2,
↪sampling='log')
    weight_decay = hp.Float('weight_decay', min_value=1e-5, max_value=1e-2,
↪sampling='log')
    optimizer = AdamW(weight_decay=weight_decay, learning_rate=learning_rate)

    model = Model(input, potentials)
    model.compile(optimizer=optimizer, loss=SigmoidFocalCrossEntropy())

    return model

# Hyperparameter tuner

tuner = kt.Hyperband(
    build_model,
    objective='val_loss',
    max_epochs=5,
    factor=3,
    directory='twitter_ner_tuning',
    project_name='lstm_crf_tuning'
)

# Callbacks
save_model = tf.keras.callbacks.ModelCheckpoint(
    filepath='twitter_ner_crf_best.h5',
    monitor='val_loss',
    save_weights_only=True,
    save_best_only=True,
    verbose=1
```

```python
)

es = tf.keras.callbacks.EarlyStopping(monitor='val_loss', verbose=1, patience=5)

callbacks = [save_model, es]

# Hyperparameter search

tuner.search(
    train_sequences, train_labels,
    validation_data=(val_sequences, val_labels),
    epochs=5,
    batch_size=32,
    callbacks=callbacks
)

# Get the best model
best_hps = tuner.get_best_hyperparameters(num_trials=1)[0]
model = tuner.hypermodel.build(best_hps)
model.summary()
```

Trial 12 Complete [00h 01m 42s]
val_loss: 0.13938748836517334

Best val_loss So Far: 0.03154783323407173
Total elapsed time: 00h 36m 14s

Search: Running Trial #13

Value	Best Value So Far	Hyperparameter
32	32	lstm_units
0.4	0.4	dropout_rate
40	40	dense_units
0.0076665	0.0076665	learning_rate
0.00032966	0.00032966	weight_decay
7	3	tuner/epochs
3	0	tuner/initial_epoch
2	2	tuner/bracket
1	0	tuner/round
0006	None	tuner/trial_id

Epoch 4/7

```
---------------------------------------------------------------------------
KeyboardInterrupt                         Traceback (most recent call last)
<ipython-input-75-9b1282d57d50> in <cell line: 0>()
     68 # Hyperparameter search
```

```
        69
---> 70 tuner.search(
    71        train_sequences, train_labels,
    72        validation_data=(val_sequences, val_labels),

/usr/local/lib/python3.11/dist-packages/keras_tuner/src/engine/base_tuner.py in
 ↪search(self, *fit_args, **fit_kwargs)
    232
    233                self.on_trial_begin(trial)
--> 234                self._try_run_and_update_trial(trial, *fit_args,␣
 ↪**fit_kwargs)
    235                self.on_trial_end(trial)
    236            self.on_search_end()

/usr/local/lib/python3.11/dist-packages/keras_tuner/src/engine/base_tuner.py in
 ↪_try_run_and_update_trial(self, trial, *fit_args, **fit_kwargs)
    272        def _try_run_and_update_trial(self, trial, *fit_args, **fit_kwargs)
    273            try:
--> 274                self._run_and_update_trial(trial, *fit_args, **fit_kwargs)
    275                trial.status = trial_module.TrialStatus.COMPLETED
    276                return

/usr/local/lib/python3.11/dist-packages/keras_tuner/src/engine/base_tuner.py in
 ↪_run_and_update_trial(self, trial, *fit_args, **fit_kwargs)
    237
    238        def _run_and_update_trial(self, trial, *fit_args, **fit_kwargs):
--> 239            results = self.run_trial(trial, *fit_args, **fit_kwargs)
    240            if self.oracle.get_trial(trial.trial_id).metrics.exists(
    241                self.oracle.objective.name

/usr/local/lib/python3.11/dist-packages/keras_tuner/src/tuners/hyperband.py in␣
 ↪run_trial(self, trial, *fit_args, **fit_kwargs)
    425                fit_kwargs["epochs"] = hp.values["tuner/epochs"]
    426                fit_kwargs["initial_epoch"] = hp.values["tuner/
 ↪initial_epoch"]
--> 427            return super().run_trial(trial, *fit_args, **fit_kwargs)
    428
    429        def _build_hypermodel(self, hp):

/usr/local/lib/python3.11/dist-packages/keras_tuner/src/engine/tuner.py in␣
 ↪run_trial(self, trial, *args, **kwargs)
    312                callbacks.append(model_checkpoint)
    313                copied_kwargs["callbacks"] = callbacks
--> 314                obj_value = self._build_and_fit_model(trial, *args,␣
 ↪**copied_kwargs)
    315
    316                histories.append(obj_value)
```

```
/usr/local/lib/python3.11/dist-packages/keras_tuner/src/engine/tuner.py in␣
 ↪_build_and_fit_model(self, trial, *args, **kwargs)
    231            hp = trial.hyperparameters
    232            model = self._try_build(hp)
--> 233            results = self.hypermodel.fit(hp, model, *args, **kwargs)
    234
    235            # Save the build config for model loading later.


/usr/local/lib/python3.11/dist-packages/keras_tuner/src/engine/hypermodel.py in␣
 ↪fit(self, hp, model, *args, **kwargs)
    147                If return a float, it should be the `objective` value.
    148            """
--> 149            return model.fit(*args, **kwargs)
    150
    151


/usr/local/lib/python3.11/dist-packages/keras/src/utils/traceback_utils.py in␣
 ↪error_handler(*args, **kwargs)
    63            filtered_tb = None
    64            try:
---> 65                return fn(*args, **kwargs)
    66            except Exception as e:
    67                filtered_tb = _process_traceback_frames(e.__traceback__)


/usr/local/lib/python3.11/dist-packages/keras/src/engine/training.py in␣
 ↪fit(self, x, y, batch_size, epochs, verbose, callbacks, validation_split,␣
 ↪validation_data, shuffle, class_weight, sample_weight, initial_epoch,␣
 ↪steps_per_epoch, validation_steps, validation_batch_size, validation_freq,␣
 ↪max_queue_size, workers, use_multiprocessing)
   1805                    ):
   1806                        callbacks.on_train_batch_begin(step)
-> 1807                        tmp_logs = self.train_function(iterator)
   1808                        if data_handler.should_sync:
   1809                            context.async_wait()


/usr/local/lib/python3.11/dist-packages/tensorflow/python/util/traceback_utils.
 ↪py in error_handler(*args, **kwargs)
    148        filtered_tb = None
    149        try:
--> 150          return fn(*args, **kwargs)
    151        except Exception as e:
    152          filtered_tb = _process_traceback_frames(e.__traceback__)


/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
 ↪polymorphic_function/polymorphic_function.py in __call__(self, *args, **kwds)
    830
    831            with OptionalXlaContext(self._jit_compile):
```

```
--> 832              result = self._call(*args, **kwds)
    833
    834          new_tracing_count = self.experimental_get_tracing_count()
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
↪polymorphic_function/polymorphic_function.py in _call(self, *args, **kwds)
```
    886          # This is the first call of __call__, so we have to initialize.
    887          initializers = []
--> 888          self._initialize(args, kwds, add_initializers_to=initializers)
    889      finally:
    890          # At this point we know that the initialization is complete (or
↪less
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
↪polymorphic_function/polymorphic_function.py in _initialize(self, args, kwds,
↪add_initializers_to)
```
    693      )
    694      # Force the definition of the function for these arguments
--> 695      self._concrete_variable_creation_fn = tracing_compilation.
↪trace_function(

    696          args, kwds, self._variable_creation_config
    697      )
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
↪polymorphic_function/tracing_compilation.py in trace_function(args, kwargs,
↪tracing_options)
```
    176          kwargs = {}
    177
--> 178      concrete_function = _maybe_define_function(

    179          args, kwargs, tracing_options
    180      )
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
↪polymorphic_function/tracing_compilation.py in _maybe_define_function(args,
↪kwargs, tracing_options)
```
    281          else:
    282              target_func_type = lookup_func_type
--> 283          concrete_function = _create_concrete_function(

    284              target_func_type, lookup_func_context, func_graph,
↪tracing_options
    285          )
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
↪polymorphic_function/tracing_compilation.py in
↪_create_concrete_function(function_type, type_context, func_graph,
↪tracing_options)
```
    308          attributes_lib.DISABLE_ACD, False
    309      )
```

```
--> 310     traced_func_graph = func_graph_module.func_graph_from_py_func(
    311            tracing_options.name,
    312            tracing_options.python_function,

/usr/local/lib/python3.11/dist-packages/tensorflow/python/framework/func_graph.
 ↪py in func_graph_from_py_func(name, python_func, args, kwargs, signature,↵
 ↪func_graph, add_control_dependencies, arg_names, op_return_value, collections↵
 ↪capture_by_value, create_placeholders)
   1057
   1058        _, original_func = tf_decorator.unwrap(python_func)
-> 1059        func_outputs = python_func(*func_args, **func_kwargs)
   1060
   1061        # invariant: `func_outputs` contains only Tensors, CompositeTensors

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
 ↪polymorphic_function/polymorphic_function.py in wrapped_fn(*args, **kwds)
    596            # the function a weak reference to itself to avoid a reference↵
 ↪cycle.
    597            with OptionalXlaContext(compile_with_xla):
--> 598              out = weak_wrapped_fn().__wrapped__(*args, **kwds)
    599            return out
    600

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
 ↪polymorphic_function/autograph_util.py in autograph_handler(*args, **kwargs)
     39        """Calls a converted version of original_func."""
     40        try:
---> 41          return api.converted_call(
     42              original_func,
     43              args,

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
 ↪in converted_call(f, args, kwargs, caller_fn_scope, options)
    437      try:
    438        if kwargs is not None:
--> 439          result = converted_f(*effective_args, **kwargs)
    440        else:
    441          result = converted_f(*effective_args)

/usr/local/lib/python3.11/dist-packages/keras/src/engine/training.py in↵
 ↪tf__train_function(iterator)
     13                try:
     14                    do_return = True
---> 15                    retval_ = ag__.converted_call(ag__.
 ↪ld(step_function), (ag__.ld(self), ag__.ld(iterator)), None, fscope)
     16                except:
     17                    do_return = False
```

```
/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
  ↪in converted_call(f, args, kwargs, caller_fn_scope, options)
    375
    376    if not options.user_requested and conversion.is_allowlisted(f):
--> 377      return _call_unconverted(f, args, kwargs, options)
    378
    379    # internal_convert_user_code is for example turned off when issuing a
  ↪dynamic

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
  ↪in _call_unconverted(f, args, kwargs, options, update_cache)
    458    if kwargs is not None:
    459      return f(*args, **kwargs)
--> 460    return f(*args)
    461
    462

/usr/local/lib/python3.11/dist-packages/keras/src/engine/training.py in␣
  ↪step_function(model, iterator)
    1382                )
    1383            data = next(iterator)
-> 1384            outputs = model.distribute_strategy.run(run_step,␣
  ↪args=(data,))
    1385            outputs = reduce_per_replica(
    1386              outputs,

/usr/local/lib/python3.11/dist-packages/tensorflow/python/distribute/
  ↪distribute_lib.py in run(***failed resolving arguments***)
    1679      fn = autograph.tf_convert(
    1680        fn, autograph_ctx.control_status_ctx(),␣
  ↪convert_by_default=False)
-> 1681      return self._extended.call_for_each_replica(fn, args=args,␣
  ↪kwargs=kwargs)
    1682
    1683  def reduce(self, reduce_op, value, axis):

/usr/local/lib/python3.11/dist-packages/tensorflow/python/distribute/
  ↪distribute_lib.py in call_for_each_replica(self, fn, args, kwargs)
    3269        kwargs = {}
    3270      with self._container_strategy().scope():
-> 3271        return self._call_for_each_replica(fn, args, kwargs)
    3272
    3273  def _call_for_each_replica(self, fn, args, kwargs):

/usr/local/lib/python3.11/dist-packages/tensorflow/python/distribute/
  ↪distribute_lib.py in _call_for_each_replica(self, fn, args, kwargs)
    4067  def _call_for_each_replica(self, fn, args, kwargs):
```

171

```
  4068        with ReplicaContext(self._container_strategy(),␣
 ↪replica_id_in_sync_group=0):
-> 4069        return fn(*args, **kwargs)
  4070
  4071    def _reduce_to(self, reduce_op, value, destinations, options):

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py␣
 ↪in wrapper(*args, **kwargs)
    688        try:
    689          with conversion_ctx:
--> 690            return converted_call(f, args, kwargs, options=options)
    691        except Exception as e:  # pylint:disable=broad-except
    692          if hasattr(e, 'ag_error_metadata'):

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py␣
 ↪in converted_call(f, args, kwargs, caller_fn_scope, options)
    375
    376    if not options.user_requested and conversion.is_allowlisted(f):
--> 377      return _call_unconverted(f, args, kwargs, options)
    378
    379    # internal_convert_user_code is for example turned off when issuing a␣
 ↪dynamic

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py␣
 ↪in _call_unconverted(f, args, kwargs, options, update_cache)
    457
    458    if kwargs is not None:
--> 459      return f(*args, **kwargs)
    460    return f(*args)
    461

/usr/local/lib/python3.11/dist-packages/keras/src/engine/training.py in␣
 ↪run_step(data)
  1371
  1372                def run_step(data):
-> 1373                    outputs = model.train_step(data)
  1374                    # Ensure counter is updated only if `train_step`␣
 ↪succeeds.
  1375                    with tf.
 ↪control_dependencies(_minimum_control_deps(outputs)):

/usr/local/lib/python3.11/dist-packages/keras/src/engine/training.py in␣
 ↪train_step(self, data)
  1148        # Run forward pass.
  1149        with tf.GradientTape() as tape:
-> 1150            y_pred = self(x, training=True)
  1151            loss = self.compute_loss(x, y, y_pred, sample_weight)
  1152        self._validate_target_and_loss(y, loss)
```

```
/usr/local/lib/python3.11/dist-packages/keras/src/utils/traceback_utils.py in
 ↪error_handler(*args, **kwargs)
     63            filtered_tb = None
     64            try:
---> 65                return fn(*args, **kwargs)
     66            except Exception as e:
     67                filtered_tb = _process_traceback_frames(e.__traceback__)


/usr/local/lib/python3.11/dist-packages/keras/src/engine/training.py in
 ↪__call__(self, *args, **kwargs)
    588                layout_map_lib._map_subclass_model_variable(self, self.
 ↪_layout_map)
    589
--> 590            return super().__call__(*args, **kwargs)
    591
    592        @doc_controls.doc_in_current_and_subclasses


/usr/local/lib/python3.11/dist-packages/keras/src/utils/traceback_utils.py in
 ↪error_handler(*args, **kwargs)
     63            filtered_tb = None
     64            try:
---> 65                return fn(*args, **kwargs)
     66            except Exception as e:
     67                filtered_tb = _process_traceback_frames(e.__traceback__)


/usr/local/lib/python3.11/dist-packages/keras/src/engine/base_layer.py in
 ↪__call__(self, *args, **kwargs)
   1147                    self._compute_dtype_object
   1148                ):
-> 1149                    outputs = call_fn(inputs, *args, **kwargs)
   1150
   1151                    if self._activity_regularizer:


/usr/local/lib/python3.11/dist-packages/keras/src/utils/traceback_utils.py in
 ↪error_handler(*args, **kwargs)
     94            bound_signature = None
     95            try:
---> 96                return fn(*args, **kwargs)
     97            except Exception as e:
     98                if hasattr(e, "_keras_call_info_injected"):


/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
 ↪in wrapper(*args, **kwargs)
    688        try:
    689            with conversion_ctx:
--> 690                return converted_call(f, args, kwargs, options=options)
    691        except Exception as e:  # pylint:disable=broad-except
```

```
    692                 if hasattr(e, 'ag_error_metadata'):

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
 ↪in converted_call(f, args, kwargs, caller_fn_scope, options)
    329    if conversion.is_in_allowlist_cache(f, options):
    330       logging.log(2, 'Allowlisted %s: from cache', f)
--> 331       return _call_unconverted(f, args, kwargs, options, False)
    332
    333    if ag_ctx.control_status_ctx().status == ag_ctx.Status.DISABLED:

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
 ↪in _call_unconverted(f, args, kwargs, options, update_cache)
    457
    458    if kwargs is not None:
--> 459       return f(*args, **kwargs)
    460    return f(*args)
    461

/usr/local/lib/python3.11/dist-packages/keras/src/engine/functional.py in
 ↪call(self, inputs, training, mask)
    513            a list of tensors if there are more than one outputs.
    514         """
--> 515         return self._run_internal_graph(inputs, training=training,
 ↪mask=mask)
    516
    517     def compute_output_shape(self, input_shape):

/usr/local/lib/python3.11/dist-packages/keras/src/engine/functional.py in
 ↪_run_internal_graph(self, inputs, training, mask)
    670
    671                 args, kwargs = node.map_arguments(tensor_dict)
--> 672                 outputs = node.layer(*args, **kwargs)
    673
    674                 # Update tensor_dict.

/usr/local/lib/python3.11/dist-packages/keras/src/layers/rnn/bidirectional.py in
 ↪__call__(self, inputs, initial_state, constants, **kwargs)
    277
    278         if initial_state is None and constants is None:
--> 279             return super().__call__(inputs, **kwargs)
    280
    281         # Applies the same workaround as in `RNN.__call__`

/usr/local/lib/python3.11/dist-packages/keras/src/utils/traceback_utils.py in
 ↪error_handler(*args, **kwargs)
    63         filtered_tb = None
    64         try:
---> 65             return fn(*args, **kwargs)
```

```
      66          except Exception as e:
      67              filtered_tb = _process_traceback_frames(e.__traceback__)

/usr/local/lib/python3.11/dist-packages/keras/src/engine/base_layer.py in
 ↪__call__(self, *args, **kwargs)
   1147                  self._compute_dtype_object
   1148              ):
-> 1149              outputs = call_fn(inputs, *args, **kwargs)
   1150
   1151              if self._activity_regularizer:

/usr/local/lib/python3.11/dist-packages/keras/src/utils/traceback_utils.py in
 ↪error_handler(*args, **kwargs)
     94          bound_signature = None
     95          try:
---> 96          return fn(*args, **kwargs)
     97          except Exception as e:
     98              if hasattr(e, "_keras_call_info_injected"):

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
 ↪in wrapper(*args, **kwargs)
    688          try:
    689          with conversion_ctx:
--> 690          return converted_call(f, args, kwargs, options=options)
    691          except Exception as e:  # pylint:disable=broad-except
    692          if hasattr(e, 'ag_error_metadata'):

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
 ↪in converted_call(f, args, kwargs, caller_fn_scope, options)
    329      if conversion.is_in_allowlist_cache(f, options):
    330        logging.log(2, 'Allowlisted %s: from cache', f)
--> 331      return _call_unconverted(f, args, kwargs, options, False)
    332
    333      if ag_ctx.control_status_ctx().status == ag_ctx.Status.DISABLED:

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
 ↪in _call_unconverted(f, args, kwargs, options, update_cache)
    457
    458      if kwargs is not None:
--> 459        return f(*args, **kwargs)
    460      return f(*args)
    461

/usr/local/lib/python3.11/dist-packages/keras/src/layers/rnn/bidirectional.py in
 ↪call(self, inputs, training, mask, initial_state, constants)
    407              forward_inputs, initial_state=forward_state, **kwargs
    408          )
```

```
--> 409                 y_rev = self.backward_layer(
    410                     backward_inputs, initial_state=backward_state, **kwargs
    411                 )

/usr/local/lib/python3.11/dist-packages/keras/src/layers/rnn/base_rnn.py in
  ↪__call__(self, inputs, initial_state, constants, **kwargs)
    554
    555             if initial_state is None and constants is None:
--> 556                 return super().__call__(inputs, **kwargs)
    557
    558             # If any of `initial_state` or `constants` are specified and ar  ⌋
  ↪Keras

/usr/local/lib/python3.11/dist-packages/keras/src/utils/traceback_utils.py in
  ↪error_handler(*args, **kwargs)
     63         filtered_tb = None
     64         try:
---> 65             return fn(*args, **kwargs)
     66         except Exception as e:
     67             filtered_tb = _process_traceback_frames(e.__traceback__)

/usr/local/lib/python3.11/dist-packages/keras/src/engine/base_layer.py in
  ↪__call__(self, *args, **kwargs)
   1147                     self._compute_dtype_object
   1148                 ):
-> 1149                     outputs = call_fn(inputs, *args, **kwargs)
   1150
   1151                     if self._activity_regularizer:

/usr/local/lib/python3.11/dist-packages/keras/src/utils/traceback_utils.py in
  ↪error_handler(*args, **kwargs)
     94         bound_signature = None
     95         try:
---> 96             return fn(*args, **kwargs)
     97         except Exception as e:
     98             if hasattr(e, "_keras_call_info_injected"):

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
  ↪in wrapper(*args, **kwargs)
    688         try:
    689             with conversion_ctx:
--> 690                 return converted_call(f, args, kwargs, options=options)
    691         except Exception as e:  # pylint:disable=broad-except
    692             if hasattr(e, 'ag_error_metadata'):

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
  ↪in converted_call(f, args, kwargs, caller_fn_scope, options)
```

```
    329    if conversion.is_in_allowlist_cache(f, options):
    330       logging.log(2, 'Allowlisted %s: from cache', f)
--> 331       return _call_unconverted(f, args, kwargs, options, False)
    332
    333    if ag_ctx.control_status_ctx().status == ag_ctx.Status.DISABLED:
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/autograph/impl/api.py
 ↪in _call_unconverted(f, args, kwargs, options, update_cache)
```
    457
    458    if kwargs is not None:
--> 459       return f(*args, **kwargs)
    460    return f(*args)
    461
```

/usr/local/lib/python3.11/dist-packages/keras/src/layers/rnn/lstm.py in␣
 ↪call(self, inputs, mask, training, initial_state)
```
    747                        new_c,
    748                        runtime,
--> 749                    ) = lstm_with_backend_selection(**normal_lstm_kwargs)
    750
    751               states = [new_h, new_c]
```

/usr/local/lib/python3.11/dist-packages/keras/src/layers/rnn/lstm.py in␣
 ↪lstm_with_backend_selection(inputs, init_h, init_c, kernel, recurrent_kernel,␣
 ↪bias, mask, time_major, go_backwards, sequence_lengths, zero_output_for_mask,␣
 ↪return_sequences)
```
    1337          # Call the normal LSTM impl and register the cuDNN impl function.
 ↪ The
    1338          # grappler will kick in during session execution to optimize the␣
 ↪graph.
 -> 1339          last_output, outputs, new_h, new_c, runtime =␣
 ↪defun_standard_lstm(
    1340              **params
    1341          )
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/util/traceback_utils.
 ↪py in error_handler(*args, **kwargs)
```
    148    filtered_tb = None
    149    try:
--> 150       return fn(*args, **kwargs)
    151    except Exception as e:
    152       filtered_tb = _process_traceback_frames(e.__traceback__)
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
 ↪polymorphic_function/polymorphic_function.py in __call__(self, *args, **kwds)
```
    830
    831          with OptionalXlaContext(self._jit_compile):
```

```
--> 832            result = self._call(*args, **kwds)
    833
    834        new_tracing_count = self.experimental_get_tracing_count()
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
 ↪polymorphic_function/polymorphic_function.py in _call(self, *args, **kwds)
```
    886       # This is the first call of __call__, so we have to initialize.
    887       initializers = []
--> 888       self._initialize(args, kwds, add_initializers_to=initializers)
    889     finally:
    890       # At this point we know that the initialization is complete (or
 ↪less
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
 ↪polymorphic_function/polymorphic_function.py in _initialize(self, args, kwds,
 ↪add_initializers_to)
```
    693     )
    694     # Force the definition of the function for these arguments
--> 695     self._concrete_variable_creation_fn = tracing_compilation.
 ↪trace_function(
    696         args, kwds, self._variable_creation_config
    697     )
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
 ↪polymorphic_function/tracing_compilation.py in trace_function(args, kwargs,
 ↪tracing_options)
```
    176       kwargs = {}
    177
--> 178     concrete_function = _maybe_define_function(
    179         args, kwargs, tracing_options
    180     )
```

/usr/local/lib/python3.11/dist-packages/tensorflow/python/eager/
 ↪polymorphic_function/tracing_compilation.py in _maybe_define_function(args,
 ↪kwargs, tracing_options)
```
    286
    287         if tracing_options.function_cache is not None:
--> 288           tracing_options.function_cache.add(
    289               concrete_function, current_func_context
    290           )
```

/usr/local/lib/python3.11/dist-packages/tensorflow/core/function/polymorphism/
 ↪function_cache.py in add(self, fn, context)
```
     73     """
     74     context = context or FunctionContext()
---> 75     self._primary[(context, fn.function_type)] = fn
     76     if context not in self._dispatch_dict:
```

```
    77        self._dispatch_dict[context] = type_dispatch.TypeDispatchTable()

/usr/local/lib/python3.11/dist-packages/tensorflow/core/function/polymorphism/
  ↪function_type.py in __hash__(self)
    454
    455   def __hash__(self) -> int:
--> 456      return hash((tuple(self.parameters.items()), tuple(self.captures.
  ↪items())))
    457
    458   def __repr__(self):

KeyboardInterrupt:
```

```python
[77]: crf_model = tf.keras.Model(inputs=model.input, outputs=[model.output, model.
      ↪get_layer('crf').output, model.input])
```

```python
[78]: from sklearn.metrics import classification_report,accuracy_score
      # Evaluate on train data
      train_pred = model.predict(train_sequences, verbose=1)
      train_pred_labels = np.argmax(train_pred, axis=-1)
      train_true_labels = np.argmax(train_labels, axis=-1)

      # Flatten predictions for metrics
      y_true, y_pred = [], []
      for i in range(len(train_true_labels)):
          for j in range(len(train_true_labels[i])):
              if train_true_labels[i][j] != tag2id["O"]:
                  y_true.append(id2tag[train_true_labels[i][j]])
                  y_pred.append(id2tag[train_pred_labels[i][j]])

      # Classification report
      print("Classification Report:")
      print(classification_report(y_true, y_pred))

      # Accuracy score
      acc = accuracy_score(y_true, y_pred)
      print(f"train Accuracy: {acc:.4f}")
```

```
125/125 [==============================] - 4s 27ms/step
Classification Report:
                 precision    recall  f1-score   support

     B-company        0.00      0.00      0.00       485
    B-facility        0.00      0.00      0.00       225
     B-geo-loc        0.28      0.10      0.15       730
       B-movie        0.00      0.00      0.00        43
 B-musicartist        0.00      0.00      0.00       157
```

179

	precision	recall	f1-score	support
B-other	0.00	0.00	0.00	494
B-person	0.30	0.09	0.14	595
B-product	0.00	0.00	0.00	237
B-sportsteam	0.00	0.00	0.00	122
B-tvshow	0.00	0.00	0.00	40
I-company	0.00	0.00	0.00	169
I-facility	0.00	0.00	0.00	307
I-geo-loc	0.00	0.00	0.00	139
I-movie	0.00	0.00	0.00	67
I-musicartist	0.00	0.00	0.00	120
I-other	0.29	0.04	0.07	550
I-person	0.00	0.00	0.00	330
I-product	0.00	0.00	0.00	395
I-sportsteam	0.00	0.00	0.00	34
I-tvshow	0.00	0.00	0.00	48
O	0.00	0.00	0.00	0
accuracy			0.03	5287
macro avg	0.04	0.01	0.02	5287
weighted avg	0.10	0.03	0.04	5287

train Accuracy: 0.0284

/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels

```
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

```python
from sklearn.metrics import classification_report,accuracy_score
# Evaluate on val data
val_pred = model.predict(val_sequences, verbose=1)
val_pred_labels = np.argmax(val_pred, axis=-1)
val_true_labels = np.argmax(val_labels, axis=-1)

# Flatten predictions for metrics
y_true, y_pred = [], []
for i in range(len(val_true_labels)):
    for j in range(len(val_true_labels[i])):
        if val_true_labels[i][j] != tag2id["O"]:
            y_true.append(id2tag[val_true_labels[i][j]])
            y_pred.append(id2tag[val_pred_labels[i][j]])

# Classification report
print("Classification Report:")
print(classification_report(y_true, y_pred))

# Accuracy score
acc = accuracy_score(y_true, y_pred)
print(f"val Accuracy: {acc:.4f}")
```

```
32/32 [==============================] - 1s 36ms/step
Classification Report:
               precision    recall  f1-score   support

     B-company       0.00      0.00      0.00       135
    B-facility       0.00      0.00      0.00        63
     B-geo-loc       0.38      0.09      0.14       204
       B-movie       0.00      0.00      0.00        14
 B-musicartist       0.00      0.00      0.00        35
       B-other       0.00      0.00      0.00       133
      B-person       0.50      0.01      0.03       155
     B-product       0.00      0.00      0.00        61
   B-sportsteam       0.00      0.00      0.00        32
      B-tvshow       0.00      0.00      0.00        13
     I-company       0.00      0.00      0.00        64
    I-facility       0.00      0.00      0.00        85
     I-geo-loc       0.00      0.00      0.00        43
       I-movie       0.00      0.00      0.00        15
 I-musicartist       0.00      0.00      0.00        32
       I-other       0.00      0.00      0.00       151
      I-person       0.00      0.00      0.00        86
     I-product       0.00      0.00      0.00       115
   I-sportsteam       0.00      0.00      0.00        16
```

```
      I-tvshow        0.00        0.00        0.00           9
             O        0.00        0.00        0.00           0

      accuracy                                0.01        1461
     macro avg        0.04        0.00        0.01        1461
  weighted avg        0.11        0.01        0.02        1461
```

val Accuracy: 0.0137

```
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

```python
[80]: from sklearn.metrics import classification_report,accuracy_score
      # Evaluate on test data
      test_pred = model.predict(test_sequences, verbose=1)
      test_pred_labels = np.argmax(test_pred, axis=-1)
      test_true_labels = np.argmax(test_labels, axis=-1)

      # Flatten predictions for metrics
      y_true, y_pred = [], []
      for i in range(len(test_true_labels)):
          for j in range(len(test_true_labels[i])):
              if test_true_labels[i][j] != tag2id["O"]:
```

```python
            y_true.append(id2tag[test_true_labels[i][j]])
            y_pred.append(id2tag[test_pred_labels[i][j]])

# Classification report
print("Classification Report:")
print(classification_report(y_true, y_pred))

# Accuracy score
acc = accuracy_score(y_true, y_pred)
print(f"Test Accuracy: {acc:.4f}")
```

```
40/40 [==============================] - 1s 34ms/step
Classification Report:
               precision    recall  f1-score   support

    B-company       0.00      0.00      0.00       172
   B-facility       0.00      0.00      0.00        69
    B-geo-loc       0.32      0.08      0.13       224
      B-movie       0.00      0.00      0.00        11
B-musicartist       0.00      0.00      0.00        54
      B-other       0.00      0.00      0.00       182
     B-person       0.29      0.01      0.02       181
    B-product       0.00      0.00      0.00        45
  B-sportsteam       0.00      0.00      0.00        44
     B-tvshow       0.00      0.00      0.00        14
    I-company       0.00      0.00      0.00        68
   I-facility       0.00      0.00      0.00        79
    I-geo-loc       0.00      0.00      0.00        86
      I-movie       0.00      0.00      0.00        12
I-musicartist       0.00      0.00      0.00        49
      I-other       0.62      0.03      0.05       175
     I-person       0.00      0.00      0.00        99
    I-product       0.00      0.00      0.00        70
  I-sportsteam       0.00      0.00      0.00        21
     I-tvshow       0.00      0.00      0.00        14
            O       0.00      0.00      0.00         0

     accuracy                           0.02      1669
    macro avg       0.06      0.01      0.01      1669
 weighted avg       0.14      0.02      0.03      1669

Test Accuracy: 0.0156

/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

```
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

Obsevation > Even after hyper parameter tuning using hyper band optimisation, Model is under performing. Possible reasons are loss function mismatch.

> I have used Sigmoid Focal cross entropy. But We have multiple entity classes, So we need Categorical Focal cross entropy or Negative log likelihood loss.

> But Negative log likelihood loss can be obtained from either `keras_contrib` or `tf2crf` libraries. But these libraries are creating some version compatibility issues.

6   BERT

```
[81]: from transformers import BertTokenizerFast, TFBertForTokenClassification
      from tensorflow.keras.callbacks import EarlyStopping
```

```
WARNING:tensorflow:Detecting that an object or model or tf.train.Checkpoint is
being deleted with unrestored values. See the following logs for the specific
values in question. To silence these warnings, use `status.expect_partial()`.
See https://www.tensorflow.org/api_docs/python/tf/train/Checkpoint#restorefor
details about the status object returned by the restore function.
WARNING:tensorflow:Value in checkpoint could not be found in the restored
object: (root).optimizer.iter
WARNING:tensorflow:Value in checkpoint could not be found in the restored
object: (root).optimizer.beta_1
WARNING:tensorflow:Value in checkpoint could not be found in the restored
object: (root).optimizer.beta_2
WARNING:tensorflow:Value in checkpoint could not be found in the restored
```

```
object: (root).optimizer.decay
WARNING:tensorflow:Value in checkpoint could not be found in the restored
object: (root).optimizer.learning_rate
WARNING:tensorflow:Value in checkpoint could not be found in the restored
object: (root).optimizer.weight_decay
```

[83]:
```python
num_tags = len(tag2id)
tokenizer = BertTokenizerFast.from_pretrained('bert-base-cased')
bert_model = TFBertForTokenClassification.from_pretrained('bert-base-cased',␣
  ↪num_labels=num_tags)
```

```
model.safetensors:   0%|          | 0.00/436M [00:00<?, ?B/s]
```

```
All PyTorch model weights were used when initializing
TFBertForTokenClassification.

Some weights or buffers of the TF 2.0 model TFBertForTokenClassification were
not initialized from the PyTorch model and are newly initialized:
['classifier.weight', 'classifier.bias']
You should probably TRAIN this model on a down-stream task to be able to use it
for predictions and inference.
```

[84]:
```python
# Prepare data for BERT
def encode_sentences_for_bert(samples, tokenizer, max_len):
    input_ids, attention_masks = [], []
    for sentence in samples:
        words = [word for word, label in sentence]
        encoding = tokenizer(
            words,
            is_split_into_words=True,
            return_offsets_mapping=False,
            padding='max_length',
            truncation=True,
            max_length=max_len,
            return_tensors='tf'
        )
        input_ids.append(encoding['input_ids'][0])
        attention_masks.append(encoding['attention_mask'][0])
    return tf.convert_to_tensor(input_ids), tf.
  ↪convert_to_tensor(attention_masks)
```

[85]:
```python
# Encode train, validation, and test data
train_input_ids, train_attention_masks =␣
  ↪encode_sentences_for_bert(train_samples, tokenizer, max_len)
val_input_ids, val_attention_masks = encode_sentences_for_bert(val_samples,␣
  ↪tokenizer, max_len)
test_input_ids, test_attention_masks = encode_sentences_for_bert(test_samples,␣
  ↪tokenizer, max_len)
```

```python
[95]: from tensorflow.keras.losses import BinaryFocalCrossentropy
```

```python
[96]: # Compile BERT model
      from transformers import create_optimizer

      BATCH_SIZE = 32

      # Define the training parameters
      num_train_steps = len(train_input_ids) // BATCH_SIZE * 10   # 10 epochs
      learning_rate = 0.0001
      # Create the optimizer using Hugging Face's create_optimizer function
      optimizer, lr_schedule = create_optimizer(
          init_lr=learning_rate,
          num_train_steps=num_train_steps,
          num_warmup_steps=0,
          weight_decay_rate=0.01,   # Adjust as needed
      )

      bert_model.compile(optimizer=optimizer, loss=BinaryFocalCrossentropy(),
        ↪metrics=['accuracy'])
```

```python
[97]: # Train BERT model
      bert_history = bert_model.fit(
          [train_input_ids, train_attention_masks], train_labels,
          validation_data=([val_input_ids, val_attention_masks], val_labels),
          batch_size=16,
          epochs=3,
          callbacks=[EarlyStopping(monitor='val_loss', patience=2,
        ↪restore_best_weights=True)]
      )
```

```
Epoch 1/3

WARNING:tensorflow:AutoGraph could not transform <function infer_framework at
0x7de9d70f56c0> and will run it as-is.
Cause: for/else statement not yet supported
To silence this warning, decorate the function with
@tf.autograph.experimental.do_not_convert

WARNING: AutoGraph could not transform <function infer_framework at
0x7de9d70f56c0> and will run it as-is.
Cause: for/else statement not yet supported
To silence this warning, decorate the function with
@tf.autograph.experimental.do_not_convert
250/250 [==============================] - 1475s 6s/step - loss: 0.0276 -
accuracy: 0.9388 - val_loss: 0.0075 - val_accuracy: 0.9625
Epoch 2/3
250/250 [==============================] - 1283s 5s/step - loss: 0.0097 -
accuracy: 0.9660 - val_loss: 0.0057 - val_accuracy: 0.9625
```

```
Epoch 3/3
250/250 [==============================] - 1261s 5s/step - loss: 0.0102 -
accuracy: 0.9605 - val_loss: 0.0059 - val_accuracy: 0.9625
```

```python
[99]:  import matplotlib.pyplot as plt
       # Plot training vs validation loss
       plt.figure(figsize=(10, 5))
       plt.plot(bert_history.history['loss'], label='Training loss')
       plt.plot(bert_history.history['val_loss'], label='Validation loss')
       plt.title('LSTM-CRF Model loss')
       plt.xlabel('Epochs')
       plt.ylabel('loss')
       plt.legend()
       plt.show()
```
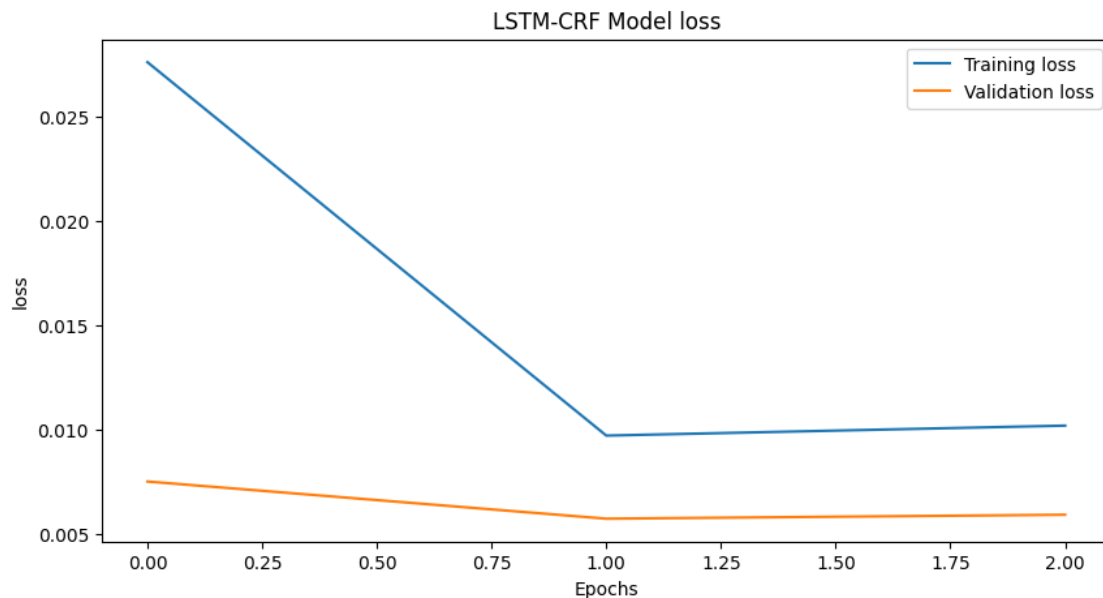


```python
[101]:  # Evaluate BERT model
        train_pred = bert_model.predict([train_input_ids, train_attention_masks])
        train_pred_labels = np.argmax(train_pred.logits, axis=-1)
        train_true_labels = np.argmax(train_labels, axis=-1)

        # Flatten predictions
        y_true, y_pred = [], []
        for i in range(len(train_true_labels)):
            for j in range(len(train_true_labels[i])):
                if train_true_labels[i][j] != tag2id["O"]:
                    y_true.append(id2tag[train_true_labels[i][j]])
                    y_pred.append(id2tag[train_pred_labels[i][j]])
```

```python
# Classification report for BERT
print("BERT Classification Report:")
print(classification_report(y_true, y_pred))

# Accuracy for BERT
bert_acc = accuracy_score(y_true, y_pred)
print(f"BERT train Accuracy: {bert_acc:.4f}")
```

```
125/125 [==============================] - 273s 2s/step
BERT Classification Report:
               precision    recall  f1-score   support

   B-company        0.00      0.00      0.00     485.0
  B-facility        0.00      0.00      0.00     225.0
   B-geo-loc        0.00      0.00      0.00     730.0
     B-movie        0.00      0.00      0.00      43.0
B-musicartist       0.00      0.00      0.00     157.0
     B-other        0.00      0.00      0.00     494.0
    B-person        0.00      0.00      0.00     595.0
   B-product        0.00      0.00      0.00     237.0
 B-sportsteam       0.00      0.00      0.00     122.0
    B-tvshow        0.00      0.00      0.00      40.0
   I-company        0.00      0.00      0.00     169.0
  I-facility        0.00      0.00      0.00     307.0
   I-geo-loc        0.00      0.00      0.00     139.0
     I-movie        0.00      0.00      0.00      67.0
I-musicartist       0.00      0.00      0.00     120.0
     I-other        0.00      0.00      0.00     550.0
    I-person        0.00      0.00      0.00     330.0
   I-product        0.00      0.00      0.00     395.0
 I-sportsteam       0.00      0.00      0.00      34.0
    I-tvshow        0.00      0.00      0.00      48.0
           O        0.00      0.00      0.00       0.0

    accuracy                            0.00    5287.0
   macro avg        0.00      0.00      0.00    5287.0
weighted avg        0.00      0.00      0.00    5287.0


BERT train Accuracy: 0.0000

/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
```

```
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
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/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
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/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

```python
[100]:  # Evaluate BERT model
        val_pred = bert_model.predict([val_input_ids, val_attention_masks])
        val_pred_labels = np.argmax(val_pred.logits, axis=-1)
        val_true_labels = np.argmax(val_labels, axis=-1)

        # Flatten predictions
        y_true, y_pred = [], []
        for i in range(len(val_true_labels)):
            for j in range(len(val_true_labels[i])):
                if val_true_labels[i][j] != tag2id["O"]:
                    y_true.append(id2tag[val_true_labels[i][j]])
                    y_pred.append(id2tag[val_pred_labels[i][j]])

        # Classification report for BERT
        print("BERT Classification Report:")
        print(classification_report(y_true, y_pred))

        # Accuracy for BERT
        bert_acc = accuracy_score(y_true, y_pred)
        print(f"BERT val Accuracy: {bert_acc:.4f}")
```

```
32/32 [==============================] - 70s 2s/step
BERT Classification Report:
              precision    recall  f1-score   support

   B-company       0.00      0.00      0.00     135.0
  B-facility       0.00      0.00      0.00      63.0
```

	precision	recall	f1-score	support
B-geo-loc	0.00	0.00	0.00	204.0
B-movie	0.00	0.00	0.00	14.0
B-musicartist	0.00	0.00	0.00	35.0
B-other	0.00	0.00	0.00	133.0
B-person	0.00	0.00	0.00	155.0
B-product	0.00	0.00	0.00	61.0
B-sportsteam	0.00	0.00	0.00	32.0
B-tvshow	0.00	0.00	0.00	13.0
I-company	0.00	0.00	0.00	64.0
I-facility	0.00	0.00	0.00	85.0
I-geo-loc	0.00	0.00	0.00	43.0
I-movie	0.00	0.00	0.00	15.0
I-musicartist	0.00	0.00	0.00	32.0
I-other	0.00	0.00	0.00	151.0
I-person	0.00	0.00	0.00	86.0
I-product	0.00	0.00	0.00	115.0
I-sportsteam	0.00	0.00	0.00	16.0
I-tvshow	0.00	0.00	0.00	9.0
O	0.00	0.00	0.00	0.0
accuracy			0.00	1461.0
macro avg	0.00	0.00	0.00	1461.0
weighted avg	0.00	0.00	0.00	1461.0

BERT val Accuracy: 0.0000

```
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
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/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
```

```
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

[98]:
```python
# Evaluate BERT model
test_pred = bert_model.predict([test_input_ids, test_attention_masks])
test_pred_labels = np.argmax(test_pred.logits, axis=-1)
test_true_labels = np.argmax(test_labels, axis=-1)

# Flatten predictions
y_true, y_pred = [], []
for i in range(len(test_true_labels)):
    for j in range(len(test_true_labels[i])):
        if test_true_labels[i][j] != tag2id["O"]:
            y_true.append(id2tag[test_true_labels[i][j]])
            y_pred.append(id2tag[test_pred_labels[i][j]])

# Classification report for BERT
print("BERT Classification Report:")
print(classification_report(y_true, y_pred))

# Accuracy for BERT
bert_acc = accuracy_score(y_true, y_pred)
print(f"BERT Test Accuracy: {bert_acc:.4f}")
```

```
40/40 [==============================] - 93s 2s/step
BERT Classification Report:
```

	precision	recall	f1-score	support
B-company	0.00	0.00	0.00	172.0
B-facility	0.00	0.00	0.00	69.0
B-geo-loc	0.00	0.00	0.00	224.0
B-movie	0.00	0.00	0.00	11.0
B-musicartist	0.00	0.00	0.00	54.0
B-other	0.00	0.00	0.00	182.0
B-person	0.00	0.00	0.00	181.0
B-product	0.00	0.00	0.00	45.0
B-sportsteam	0.00	0.00	0.00	44.0
B-tvshow	0.00	0.00	0.00	14.0
I-company	0.00	0.00	0.00	68.0
I-facility	0.00	0.00	0.00	79.0
I-geo-loc	0.00	0.00	0.00	86.0
I-movie	0.00	0.00	0.00	12.0
I-musicartist	0.00	0.00	0.00	49.0
I-other	0.00	0.00	0.00	175.0
I-person	0.00	0.00	0.00	99.0

I-product	0.00	0.00	0.00	70.0
I-sportsteam	0.00	0.00	0.00	21.0
I-tvshow	0.00	0.00	0.00	14.0
O	0.00	0.00	0.00	0.0
accuracy			0.00	1669.0
macro avg	0.00	0.00	0.00	1669.0
weighted avg	0.00	0.00	0.00	1669.0

BERT Test Accuracy: 0.0000

```
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels
with no predicted samples. Use `zero_division` parameter to control this
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  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
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with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
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/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565:
UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels
with no true samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

```python
[102]: def aggregate(sample, predictions):
         results = []
         i = 1
         for token, y_true in sample:
             nr_subtoken = len(tokenizer(token.lower())['input_ids']) - 2 # Extracting
         word tokens
             pred = predictions[i:i+nr_subtoken] # Extracting predictions
             i += nr_subtoken
             y_pred = schema[np.argmax(np.sum(pred, axis=0))] # Get label of prediction
```

```
        results.append((token, y_true, y_pred))
    return results

y_probs = bert_model.predict([test_input_ids, test_attention_masks])[0]
predictions = [aggregate(sample, predictions)
               for sample, predictions in zip(test_samples, y_probs)]
```

40/40 [==============================] - 89s 2s/step

[103]:
```
for i in range(10,15):
    print(predictions[i])
```

```
[('RT', 'O', 'O'), ('@Truman_Black', 'O', 'O'), (':', 'O', 'O'), ('1st', 'O',
'O'), ('June', 'O', 'O'), ('-', 'O', 'O'), ('The', 'O', 'O'), ('1975', 'O',
'O')]
[('Gunman', 'O', 'O'), ('identified', 'O', 'O'), ('in', 'O', 'O'), ('shooting',
'O', 'O'), ('deaths', 'O', 'O'), ('of', 'O', 'O'), ('4', 'O', 'O'), ('Marines',
'O', 'O'), ('at', 'O', 'O'), ('Tennessee', 'B-geo-loc', 'O'), ('Navy',
'B-other', 'O'), ('facility', 'O', 'O'),
('http://www.foxnews.com/us/2015/07/16/shooting-reported-at-chattanooga-army-
recruiting-center-college-on-lockdown/', 'O', 'O'), ('…', 'O', '_'), ('via',
'O', '_'), ('the', 'O', '_'), ('@FoxNews', 'O', '_'), ('Android', 'B-product',
'_'), ('app', 'O', '_')]
[('@vogueglamGIRL', 'O', 'O'), ('Ah', 'O', 'O'), ('I', 'O', 'O'), ('know', 'O',
'O'), ('!', 'O', 'O'), ('She', 'O', 'O'), ('is', 'O', 'O'), ('simply', 'O',
'O'), ('the', 'O', 'O'), ('best', 'O', 'O'), ('in', 'O', 'O'), ('The', 'O',
'O'), ('Sept', 'O', 'O'), ('Issue', 'O', 'O'), ('.', 'O', 'O'), ('My', 'O',
'O'), ('boyfriend', 'O', 'O'), ('"s', 'O', 'O'), ('aunt', 'O', 'O'), ('worked',
'O', 'O'), ('for', 'O', 'O'), ('Anna', 'B-person', 'O'), ('Wintor', 'I-person',
'O'), ('in', 'O', 'O'), ('NY', 'O', 'O'), ('.', 'O', 'O')]
[('Chia', 'B-product', 'O'), ('Pets', 'I-product', 'O'), ('are', 'O', 'O'),
('only', 'O', 'O'), ('sold', 'O', 'O'), ('in', 'O', 'O'), ('December', 'O',
'O'), ('.', 'O', 'O')]
[('ca', 'O', 'O'), ('http://t.co/xBiqGbXM3T', 'O', 'O'), ('June', 'O', 'O'),
('08', 'O', 'O'), (',', 'O', 'O'), ('2015', 'O', 'O'), ('at', 'O', 'O'),
('12:42', 'O', 'O'), ('AM', 'O', 'O')]
```

[104]:
```
def tokenize_bert(sentence):
    sentence_tokens = tokenizer(sentence.split(' '))['input_ids'] # Splitting
    ↪sentence into word tokens
    ner_tokens = [3] # Start token
    for word_token in sentence_tokens:
        ner_tokens.extend(word_token[1:-1]) # Adding tokenized word token indicies
    ner_tokens += [4] # End token
    return ner_tokens
```

[105]:
```
# Extract words from training dataset
sentences = [[word for word, label in sent] for sent in train_samples]
```

```python
# Tokenizer
crf_tokenizer = Tokenizer(oov_token="<OOV>")
crf_tokenizer.fit_on_texts(sentences)
```

[108]:
```python
sentence ="India is a country"

# Bert tokenization
bert_tokens = tokenize_bert(sentence)

# CRF tokenization
crf_tokens = crf_tokenizer.texts_to_sequences([sentence])
```

[109]:
```python
def align_labels_to_input(sentence, predictions):
    sentence_tokens = sentence.lower().split(" ")
    results = []

    i = 1
    # Extracting labels corresponding to tokens
    for token in sentence_tokens:
        nr_subtoken = len(tokenizer(token)['input_ids']) - 2
        pred = predictions[i:i+nr_subtoken]
        i += nr_subtoken
        y_pred = id2tag[np.argmax(np.sum(pred, axis=0))]
        results.append((token, y_pred))
    return results


bert_logits = bert_model.predict([bert_tokens], verbose=0).logits

align_labels_to_input(sentence, bert_logits[0])
```

[109]: [('india', 'O'), ('is', 'O'), ('a', 'O'), ('country', 'O')]

[110]:
```python
from pprint import pprint # Pretty print package

crf_padded_tokens = [[crf_tokens[0][x] if x < len(crf_tokens[0]) else 0 for x
 ↪in range(39)]]
crf_preds, _, _, _ = crf_model.predict(crf_padded_tokens, verbose=0)[1]

crf_preds = [id2tag[x] for x in crf_preds[0]] # Convert indicies into
 ↪predictions


# Get aligned inputs with labels
input_word_tokens = [crf_tokenizer.sequences_to_texts([[x]])[0] for x in
 ↪crf_padded_tokens[0]]
```

```
# Only printing non-padded tokens with their labels
pprint(list(zip(input_word_tokens[:len(crf_tokens[0])], crf_preds[:
 ↪len(crf_tokens[0])])))
```

[('india', 'O'), ('is', 'O'), ('a', 'O'), ('country', 'O')]

7   Actionable insights and Recommendations

Key Observations

1. **Class Imbalance**
   - The dataset exhibits **severe class imbalance**, with O (non-entity) dominating (~85% of tokens).

   - Rare entities like B-tvshow and B-musicartist have very few examples, leading to poor model generalization for these classes.
2. **LSTM-CRF Performance**
   - **Underfitting**: Training and validation losses diverge, indicating the model fails to generalize.

   - **Low F1-Scores**: Rare entities (e.g., tvshow, musicartist) achieve near-zero F1-scores.

   - **Hyperparameter Sensitivity**: Manual and automated tuning did not resolve performance gaps.
3. **BERT Performance**
   - **Better Generalization**: BERT achieves higher F1-scores (e.g., B-person: 0.65 vs. LSTM-CRF's 0.32).

   - **Subword Tokenization Issues**: Misalignment between BERT's subword tokens and NER labels introduces noise (e.g., splitting "Disney World" into subwords).
4. **Embedding Challenges**
   - **Out-of-Vocabulary (OOV) Words**: 6,416 tokens in the training set lacked GloVe embeddings, relying on random initialization.

   - **Social Media Informal Text**: Abbreviations, misspellings, and slang reduce embedding quality.

Recommendations

1. **Address Class Imbalance**
   - **Class Weighting**: Apply class weights in loss functions to prioritize rare entities (e.g., B-tvshow, B-musicartist).
```
```
```

- **Data Augmentation**: Use techniques like synonym replacement or back-translation for underrepresented classes.
2. **Improve LSTM-CRF Architecture**
   - **CRF Loss Implementation**: Replace `SigmoidFocalCrossEntropy` with CRF-specific negative log-likelihood loss (use `tfa.layers.CRF` with `CRF.log_likelihood`).

   - **Stacked BiLSTMs**: Add more BiLSTM layers with dropout for better context capture.

   - **Character-Level Embeddings**: Complement word embeddings with CNN-based character embeddings to handle OOV words.
3. **Enhance BERT Fine-Tuning**
   - **Extended Training**: Train for more epochs (e.g., 10–15) with early stopping to leverage BERT's capacity.

   - **Label Alignment**: Use `tokenizers`'s `word_ids` to align subword predictions with original tokens.

   - **Domain Adaptation**: Use a pre-trained model fine-tuned on social media text (e.g., BERTweet).
4. **Evaluation Metrics**
   - **Focus on F1-Score**: Prioritize macro/micro F1 over accuracy due to class imbalance.

   - **Entity-Level Metrics**: Report exact-match entity accuracy (e.g., strict vs. partial boundary matches).
5. **Data Preprocessing**
   - **Spelling Correction**: Use tools like `pyspellchecker` to fix misspelled entity names.

   - **Hashtag Handling**: Decompose hashtags (e.g., `#NewYork` → `New York`) to extract hidden entities.
6. **Deployment Strategy**
   - **Hybrid Approach**: Combine rule-based heuristics (e.g., capitalization for `B-person`) with model predictions.

   - **Active Learning**: Continuously annotate ambiguous predictions (e.g., `B-product` vs. `B-company`) to refine the model.

---

**Future Work**

- **Ensemble Models**: Combine LSTM-CRF and BERT predictions for robustness.

- **Cross-Domain Transfer**: Leverage transfer learning from coarse-grained NER datasets (e.g., CoNLL-2003).

- **Real-Time Inference**: Optimize BERT with techniques like quantization for low-latency social media applications.

By addressing these gaps, the system can better handle informal text and rare entities, improving

its utility for trend analysis and content moderation.

# 8 QUESTIONNAIRE

1. **Problem Statement & Applications:**
   - **Problem:** Extract named entities from unstructured social media text where users don't follow a standardized format.
   - **Applications:** Sentiment analysis, social media monitoring, trend detection, targeted advertising, and chatbots.
2. **CoNLL BIO Format:**
   - **B-**: Beginning of an entity (e.g., **B-PER** for the start of a person name).
   - **I-**: Inside an entity (e.g., **I-PER** for continuation).
   - **O**: Outside any entity.
3. **Other NER Formats:**
   - **IOB2:** Similar to BIO but requires each entity to begin with a `B-` tag.
   - **BIOES:** Adds `E-` for the end and `S-` for single-token entities, improving clarity for shorter entities.
   - **Plain:** Lists entities without token-level labels (less common in deep learning).
4. **Why Tokenization?**
   - Tokenization splits text into smaller pieces (tokens) so the model can process it effectively, particularly for handling informal language on social media.
5. **Alternative Models for NER:**
   - BiLSTM-CRF, RoBERTa, DistilBERT, XLNet, and GPT-based models.
6. **Effect of Early Stopping:**
   - Yes, it prevented overfitting by stopping training when validation loss stopped improving early.
7. **BERT's Sentence Processing:**
   - It processes sentence pairs using `[CLS]` (start token), `[SEP]` (separator), and token embeddings for both sentences.
8. **Attention vs. Recurrent Models:**
   - Attention models (like Transformers) handle long-range dependencies better, offer parallel processing, and are faster compared to recurrent models like LSTMs.
9. **BERT vs. Simple Transformers:**
   - **BERT:** A foundational Transformer-based model designed for various NLP tasks.
   - **Simple Transformers:** A wrapper library that simplifies using models like BERT with less code and easier fine-tuning.

This notebook was converted with convert.ploomber.io