

CricketCommentary

April 14, 2024

```
[1]: pip install fastai
```

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Requirement already satisfied: fastai in c:\users\saita\anaconda3\lib\site-  
packages (2.7.14)  
Requirement already satisfied: scipy in c:\users\saita\anaconda3\lib\site-  
packages (from fastai) (1.9.1)  
Requirement already satisfied: spacy<4 in c:\users\saita\anaconda3\lib\site-  
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Requirement already satisfied: pandas in c:\users\saita\anaconda3\lib\site-  
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Requirement already satisfied: fastdownload<2,>=0.0.5 in  
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Requirement already satisfied: pip in c:\users\saita\anaconda3\lib\site-packages  
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Requirement already satisfied: requests in c:\users\saita\anaconda3\lib\site-  
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Requirement already satisfied: scikit-learn in  
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Requirement already satisfied: matplotlib in c:\users\saita\anaconda3\lib\site-  
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Requirement already satisfied: pyyaml in c:\users\saita\anaconda3\lib\site-  
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Requirement already satisfied: pillow>=9.0.0 in  
c:\users\saita\anaconda3\lib\site-packages (from fastai) (9.2.0)  
Requirement already satisfied: fastcore<1.6,>=1.5.29 in  
c:\users\saita\anaconda3\lib\site-packages (from fastai) (1.5.29)  
Requirement already satisfied: packaging in c:\users\saita\anaconda3\lib\site-  
packages (from fastai) (21.3)  
Requirement already satisfied: torchvision>=0.11 in  
c:\users\saita\anaconda3\lib\site-packages (from fastai) (0.17.2)  
Requirement already satisfied: fastprogress>=0.2.4 in  
c:\users\saita\anaconda3\lib\site-packages (from fastai) (1.0.3)  
Requirement already satisfied: typer<0.10.0,>=0.3.0 in  
c:\users\saita\anaconda3\lib\site-packages (from spacy<4->fastai) (0.9.4)  
Requirement already satisfied: thinc<8.3.0,>=8.2.2 in  
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Requirement already satisfied: preshed<3.1.0,>=3.0.2 in
c:\users\saito\anaconda3\lib\site-packages (from spacy<4->fastai) (3.0.9)

Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in
c:\users\saito\anaconda3\lib\site-packages (from spacy<4->fastai) (2.0.10)

Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in
c:\users\saito\anaconda3\lib\site-packages (from spacy<4->fastai) (1.1.2)

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Requirement already satisfied: numpy>=1.19.0 in
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Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in
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Requirement already satisfied: cymem<2.1.0,>=2.0.2 in
c:\users\saito\anaconda3\lib\site-packages (from spacy<4->fastai) (2.0.8)

Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in
c:\users\saito\anaconda3\lib\site-packages (from spacy<4->fastai) (1.0.5)

Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in
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Requirement already satisfied: smart-open<7.0.0,>=5.2.1 in
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Requirement already satisfied: pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4 in
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Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in
c:\users\saito\anaconda3\lib\site-packages (from packaging->fastai) (3.0.9)

Requirement already satisfied: charset-normalizer<3,>=2 in
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Requirement already satisfied: certifi>=2017.4.17 in
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Requirement already satisfied: idna<4,>=2.5 in
c:\users\saito\anaconda3\lib\site-packages (from requests->fastai) (3.3)

Requirement already satisfied: urllib3<1.27,>=1.21.1 in
c:\users\saito\anaconda3\lib\site-packages (from requests->fastai) (1.26.11)

Requirement already satisfied: typing-extensions>=4.8.0 in
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 Requirement already satisfied: fonttools>=4.22.0 in c:\users\saite\anaconda3\lib\site-packages (from matplotlib->fastai) (4.25.0)
 Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\saite\anaconda3\lib\site-packages (from matplotlib->fastai) (1.4.2)
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 Requirement already satisfied: python-dateutil>=2.7 in c:\users\saite\anaconda3\lib\site-packages (from matplotlib->fastai) (2.8.2)
 Requirement already satisfied: pytz>=2020.1 in c:\users\saite\anaconda3\lib\site-packages (from pandas->fastai) (2022.1)
 Requirement already satisfied: joblib>=0.11 in c:\users\saite\anaconda3\lib\site-packages (from scikit-learn->fastai) (1.1.0)
 Requirement already satisfied: threadpoolctl>=2.0.0 in c:\users\saite\anaconda3\lib\site-packages (from scikit-learn->fastai) (2.2.0)
 Requirement already satisfied: annotated-types>=0.4.0 in c:\users\saite\anaconda3\lib\site-packages (from pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4->spacy<4->fastai) (0.6.0)
 Requirement already satisfied: pydantic-core==2.16.3 in c:\users\saite\anaconda3\lib\site-packages (from pydantic!=1.8,!1.8.1,<3.0.0,>=1.7.4->spacy<4->fastai) (2.16.3)
 Requirement already satisfied: six>=1.5 in c:\users\saite\anaconda3\lib\site-packages (from python-dateutil>=2.7->matplotlib->fastai) (1.16.0)
 Requirement already satisfied: blis<0.8.0,>=0.7.8 in c:\users\saite\anaconda3\lib\site-packages (from thinc<8.3.0,>=8.2.2->spacy<4->fastai) (0.7.11)
 Requirement already satisfied: confection<1.0.0,>=0.0.1 in c:\users\saite\anaconda3\lib\site-packages (from thinc<8.3.0,>=8.2.2->spacy<4->fastai) (0.1.4)
 Requirement already satisfied: colorama in c:\users\saite\anaconda3\lib\site-packages (from tqdm<5.0.0,>=4.38.0->spacy<4->fastai) (0.4.6)
 Requirement already satisfied: click<9.0.0,>=7.1.1 in c:\users\saite\anaconda3\lib\site-packages (from typer<0.10.0,>=0.3.0->spacy<4->fastai) (8.0.4)
 Requirement already satisfied: cloudpathlib<0.17.0,>=0.7.0 in c:\users\saite\anaconda3\lib\site-packages (from weasel<0.4.0,>=0.1.0->spacy<4->fastai) (0.16.0)
 Requirement already satisfied: MarkupSafe>=0.23 in c:\users\saite\anaconda3\lib\site-packages (from jinja2->spacy<4->fastai) (2.0.1)
 Requirement already satisfied: mpmath>=0.19 in c:\users\saite\anaconda3\lib\site-packages (from sympy->torch<2.3,>=1.10->fastai) (1.2.1)
 Note: you may need to restart the kernel to use updated packages.

```
[2]: import pandas as pd
import numpy as np
import re
import nltk
from nltk.tokenize import word_tokenize
import os
from fastai.text.all import *
```

```
[3]: data = pd.read_csv("IPL_Match_Highlights_Commentary.csv")
```

```
[4]: # Text cleaning
def clean_text(text):
    text = re.sub(r'[^a-zA-Z\s]', '', text) # Remove non-alphabetic characters
    text = text.lower() # Convert text to lowercase
    return text

data['Commentary'] = data['Commentary'].apply(clean_text)
```

```
[5]: import nltk
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize
import string

# Tokenization
nltk.download('punkt')
nltk.download('stopwords')

data['tokenized_commentary'] = data['Commentary'].apply(lambda x:
    ↪word_tokenize(x.lower()))

# Remove stopwords and punctuation
stop_words = set(stopwords.words('english'))
data['cleaned_commentary'] = data['tokenized_commentary'].apply(lambda x: [word
    ↪for word in x if (word not in stop_words) and (word not in string.
    ↪punctuation)])

# Feature Engineering
data['processed_text'] = data['cleaned_commentary'].apply(lambda x: ' '.join(x))
```

```
[nltk_data] Downloading package punkt to
[nltk_data] C:\Users\saita\AppData\Roaming\nltk_data...
[nltk_data] Package punkt is already up-to-date!
[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\saita\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
```

```
[6]: data.head(3)
```

```
[6]:      Match_id      Team Over_num \
0      4281444  RCB 1st Inns      0.5
1      4281444  RCB 1st Inns      1.0
2      4281444  RCB 1st Inns     10.0
```

```
      Commentary \
```

```
0                                nehra to mandeep four first
boundary for mandeep and rcb full and on the pads needed to be put away and
mandeep did just that picked it up and dispatched it over midwicket couple of
bounces and into the fence
1  nehra to mandeep four backtoback boundaries to end the first over again nehra
is a tad short in his length mandeep had the width to cut and he didnt try to
hit it hard just placed it behind point and bhuvi at third man gave up the chase
pretty quickly
2                                henriques to kedar jadhav four hit straight back at
henriques and he was late to get his hand up once more the offcutter which
almost fooled jadhav who shimmied down and checked his drive middled it alright
to beat the midoff fielder
```

```
      batsman score \
```

```
0      Nehra to Mandeep  FOUR
1      Nehra to Mandeep  FOUR
2  Henriques to Kedar Jadhav  FOUR
```

```
      tokenized_commentary \
```

```
0                                [nehra, to, mandeep,
four, first, boundary, for, mandeep, and, rcb, full, and, on, the, pads, needed,
to, be, put, away, and, mandeep, did, just, that, picked, it, up, and,
dispatched, it, over, midwicket, couple, of, bounces, and, into, the, fence]
1  [nehra, to, mandeep, four, backtoback, boundaries, to, end, the, first, over,
again, nehra, is, a, tad, short, in, his, length, mandeep, had, the, width, to,
cut, and, he, didnt, try, to, hit, it, hard, just, placed, it, behind, point,
and, bhuvi, at, third, man, gave, up, the, chase, pretty, quickly]
2                                [henriques, to, kedar, jadhav, four, hit, straight,
back, at, henriques, and, he, was, late, to, get, his, hand, up, once, more,
the, offcutter, which, almost, fooled, jadhav, who, shimmied, down, and,
checked, his, drive, middled, it, alright, to, beat, the, midoff, fielder]
```

```
      cleaned_commentary \
```

```
0                                [nehra, mandeep, four,
first, boundary, mandeep, rcb, full, pads, needed, put, away, mandeep, picked,
dispatched, midwicket, couple, bounces, fence]
1  [nehra, mandeep, four, backtoback, boundaries, end, first, nehra, tad, short,
length, mandeep, width, cut, didnt, try, hit, hard, placed, behind, point,
bhuvi, third, man, gave, chase, pretty, quickly]
2                                [henriques, kedar, jadhav, four, hit, straight, back,
henriques, late, get, hand, offcutter, almost, fooled, jadhav, shimmied,
```

```
checked, drive, middled, alright, beat, midoff, fielder]
```

```
processed_text
0                                nehra mandeep four first boundary
mandeep rcb full pads needed put away mandeep picked dispatched midwicket couple
bounces fence
1  nehra mandeep four backtoback boundaries end first nehra tad short length
mandeep width cut didnt try hit hard placed behind point bhuvi third man gave
chase pretty quickly
2      henriques kedar jadhav four hit straight back henriques late get
hand offcutter almost fooled jadhav shimmied checked drive middled alright beat
midoff fielder
```

```
[7]: data.shape
```

```
[7]: (11574, 9)
```

```
[8]: total_commentaries = 11574
for i in range(5):
    commentary = data.Commentary[i]                # This is the text of row 'i'.
    print(commentary)
    print()

print("Total number of commentaries:", total_commentaries)
```

nehra to mandeep four first boundary for mandeep and rcb full and on the pads needed to be put away and mandeep did just that picked it up and dispatched it over midwicket couple of bounces and into the fence

nehra to mandeep four backtoback boundaries to end the first over again nehra is a tad short in his length mandeep had the width to cut and he didnt try to hit it hard just placed it behind point and bhuvi at third man gave up the chase pretty quickly

henriques to kedar jadhav four hit straight back at henriques and he was late to get his hand up once more the offcutter which almost fooled jadhav who shimmied down and checked his drive middled it alright to beat the midoff fielder

nehra to kedar jadhav four another full toss its jadhav this time and he picks his spot into the deep midwicket fence not great bowling from nehra hes missing the yorker by quite a bit

nehra to kedar jadhav four four more jadhav starting to really find his timing now and hes looking dangerous this is smart batting rather than just throwing his bat at everything he knows that fine leg is up and so he waits for the back of a length delivery to come to him before pulling it over the fielder nehra under pressure

Total number of commentaries: 11574

```
[9]: import os
import pandas as pd

# Create directory if it doesn't exist
os.makedirs("./full_commentaries", exist_ok=True)

# Load the dataset
data = pd.read_csv('IPL_Match_Highlights_Commentary.csv')

# Iterate through the dataset and write commentary to text files
for i in range(data.shape[0]):
    commentary = data.Commentary[i] # Extract commentary text
    # Write commentary to a text file
    with open(f"./full_commentaries/{i}.txt", "w") as f:
        f.write(commentary)
```

```
[10]: from fastai.text.all import *

# Set up the path to the directory containing text files
inputpath = "./full_commentaries"

# Function to get text files
def get_text_files(path):
    return get_files(path)

# Collect all text files within the directory
textfiles = get_text_files(inputpath)
```

```
[13]: # Define a DataBlock for processing text data
commentary_loader = DataBlock(
    blocks=TextBlock.from_folder(inputpath, is_lm=True),
    get_items=get_text_files,
    splitter=RandomSplitter(0.1),
)

# Create DataLoaders with n_workers set to 0
commentary_dls = commentary_loader.dataloaders(inputpath, path=inputpath,
    bs=64, seq_len=70, n_workers=0)
```

```
[15]: # Initialize a language model learner
learn = language_model_learner(commentary_dls, AWD_LSTM, drop_mult=0.3,
    metrics=accuracy).to_fp16()

# Train the model
learn.fit_one_cycle(5, 2e-2)
```

```
learn.fit_one_cycle(5, 1e-2)

# Generate predictions
print(learn.predict("and there goes the ball towards", 20, temperature=0.5))
print(learn.predict("the ball flies", 20, temperature=0.7))
```

<IPython.core.display.HTML object>

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```
C:\Users\saito\anaconda3\lib\site-packages\torch\amp\autocast_mode.py:250:
UserWarning: User provided device_type of 'cuda', but CUDA is not available.
Disabling
  warnings.warn(
C:\Users\saito\anaconda3\lib\site-packages\torch\cuda\amp\grad_scaler.py:126:
UserWarning: torch.cuda.amp.GradScaler is enabled, but CUDA is not available.
Disabling.
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the ball flies between Negi and Negi to Negi , FOUR , " that 's " class " "
```

```
[16]: learn.predict("Gayle hits", 20, temperature = 0.89)
```

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```
[16]: 'Gayle hits his first maximum of the night on a good length . It travels to the long - off boundary'
```

```
[17]: print(learn.predict("The crowd erupted as", 20, temperature=0.7))
print(learn.predict("Incredible shot!", 15, temperature=0.6))
print(learn.predict("The bowler approaches the crease with determination,", 25,
    ↳temperature=0.7))
print(learn.predict("The stadium is packed with fans cheering for their
    ↳favorite team,", 20, temperature=0.7))
print(learn.predict("The match hangs in the balance as", 15, temperature=0.6))
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Perplexity: 13.22086690713197

```
[21]: print(learn.predict("dispatched it over midwicket", 10, temperature=0.7))
      print(learn.predict("he didnt try to hit it hard", 10, temperature=0.7))
      print(learn.predict("who shimmied down and checked his drive", 10,
        ↪temperature=0.7))
      print(learn.predict("missing the yorker by quite a bit", 10, temperature=0.7))
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warnings.warn(
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who shimmied down and checked his drive . The ball clipped the inside edge ,
beat

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warnings.warn(
pulling it over the fielder 's head for a maximum Tye to
```

```
[22]: # Define the tokens
tokens = [
    "dispatched it over midwicket",
    "he didnt try to hit it hard",
    "who shimmied down and checked his drive",
    "missing the yorker by quite a bit",
    "pulling it over the fielder"
]

# Generate reference and generated commentary tokens
reference_commentary_tokens = []
generated_commentary_tokens = []

for token in tokens:
    # Generate prediction based on the token
    prediction = learn.predict(token, 10, temperature=0.7)

    # Split prediction into tokens
    generated_tokens = prediction.split()

    # Add original token to reference list
    reference_commentary_tokens.append(token)

    # Add generated tokens to generated list
    generated_commentary_tokens.append(generated_tokens)

# Print reference and generated lists
print("Reference Commentary Tokens:")
print(reference_commentary_tokens)
print("\nGenerated Commentary Tokens:")
print(generated_commentary_tokens)
```

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Disabling.
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```

Reference Commentary Tokens:

```

['dispatched it over midwicket', 'he didnt try to hit it hard', 'who shimmied
down and checked his drive', 'missing the yorker by quite a bit', 'pulling it
over the fielder']

```

Generated Commentary Tokens:

```

[['dispatched', 'it', 'over', 'midwicket', 'Bhuvneshwar', 'to', 'Pant', ',',
'FOUR', ',', ], ['he', 'did', 'xxunk', 'try', 'to', 'hit', 'it', 'hard', '.',
'There', 'was', 'nothing', 'to', 'stop', 'it', ',', 'but'], ['who', 'shimmied',
'down', 'and', 'checked', 'his', 'drive', 'but', 'lost', 'his', 'balance', 'in',
'the', 'upper', 'half', 'of', 'the'], ['missing', 'the', 'yorker', 'by',
'quite', 'a', 'bit', 'to', 'the', 'left', 'of', 'Hetmyer', ',', 'who',
'swivels', ',', ], ['pulling', 'it', 'over', 'the', 'fielder', "'s", 'head', '.',
'There', 'was', 'never', 'a', 'clear', 'fielder']]

```

```

[23]: from nltk.translate.bleu_score import corpus_bleu

```

```

# Reference commentary tokens
reference_commentary_tokens = [['dispatched it over midwicket'],
                               ['he didnt try to hit it hard'],
                               ['who shimmied down and checked his drive'],

```

```

        ['missing the yorker by quite a bit'],
        ['pulling it over the fielder']]

# Generated commentary tokens
generated_commentary_tokens = [['dispatched', 'it', 'over', 'midwicket',
    ↪ 'Bhuvneshwar', 'to', 'Pant', ',', 'FOUR', ','],
    ['he', 'did', 'xxunk', 'try', 'to', 'hit',
    ↪ 'it', 'hard', '.', 'There', 'was', 'nothing', 'to', 'stop', 'it', ','],
    ↪ 'but'],
    ['who', 'shimmied', 'down', 'and', 'checked',
    ↪ 'his', 'drive', 'but', 'lost', 'his', 'balance', 'in', 'the', 'upper',
    ↪ 'half', 'of', 'the'],
    ['missing', 'the', 'yorker', 'by', 'quite',
    ↪ 'a', 'bit', 'to', 'the', 'left', 'of', 'Hetmyer', ',', 'who', 'swivels',
    ↪ ','],
    ['pulling', 'it', 'over', 'the', 'fielder',
    ↪ 's", 'head', '.', 'There', 'was', 'never', 'a', 'clear', 'fielder']]

# Compute BLEU score
bleu_score = corpus_bleu(reference_commentary_tokens,
    ↪ generated_commentary_tokens)
print("BLEU Score:", bleu_score)

```

BLEU Score: 2.1071373518345672e-232

C:\Users\saita\anaconda3\lib\site-packages\nltk\translate\bleu_score.py:552:

UserWarning:

The hypothesis contains 0 counts of 2-gram overlaps.

Therefore the BLEU score evaluates to 0, independently of

how many N-gram overlaps of lower order it contains.

Consider using lower n-gram order or use SmoothingFunction()

warnings.warn(_msg)

C:\Users\saita\anaconda3\lib\site-packages\nltk\translate\bleu_score.py:552:

UserWarning:

The hypothesis contains 0 counts of 3-gram overlaps.

Therefore the BLEU score evaluates to 0, independently of

how many N-gram overlaps of lower order it contains.

Consider using lower n-gram order or use SmoothingFunction()

warnings.warn(_msg)

C:\Users\saita\anaconda3\lib\site-packages\nltk\translate\bleu_score.py:552:

UserWarning:

The hypothesis contains 0 counts of 4-gram overlaps.

Therefore the BLEU score evaluates to 0, independently of

how many N-gram overlaps of lower order it contains.

Consider using lower n-gram order or use SmoothingFunction()

warnings.warn(_msg)

```
[24]: from fastai.callback.fp16 import *
from fastai.callback.schedule import fit_one_cycle
from fastai.callback.progress import *

# Define the path to the directory containing text files
inputpath = "./full_commentaries"

# Create a DataBlock for processing text data
commentary_datablock = DataBlock(
    blocks=TextBlock.from_folder(inputpath, is_lm=True),
    get_items=get_text_files,
    splitter=RandomSplitter(0.1)
)

# Create DataLoaders
commentary_dataloaders = commentary_datablock.dataloaders(inputpath,
    ↪path=inputpath, bs=64, seq_len=70)

# Initialize a language model learner
learn = language_model_learner(commentary_dataloaders, AWD_LSTM, drop_mult=0.3,
    ↪metrics=[accuracy, Perplexity()], path=inputpath).to_fp16()

# Perform hyperparameter tuning
learn.lr_find()

# Fine-tune the model using the one-cycle policy
learn.fit_one_cycle(5, 2e-2, cbs=[SaveModelCallback()])
learn.unfreeze()
learn.fit_one_cycle(5, lr_max=slice(1e-7, 1e-5), cbs=[SaveModelCallback()])

# Evaluate the model
validation_loss = learn.validate()[0]
print(f"Validation Loss: {validation_loss}")

# Save the fine-tuned model
learn.save("fine_tuned_language_model")
```

```
C:\Users\saita\anaconda3\lib\site-packages\torch\amp\autocast_mode.py:250:
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```

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Better model found at epoch 0 with valid_loss value: 2.98701810836792.
Better model found at epoch 1 with valid_loss value: 2.7585082054138184.
Better model found at epoch 2 with valid_loss value: 2.662907361984253.
Better model found at epoch 3 with valid_loss value: 2.610077381134033.
Better model found at epoch 4 with valid_loss value: 2.602825403213501.

C:\Users\saito\anaconda3\lib\site-packages\torch\amp\autocast_mode.py:250:
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<IPython.core.display.HTML object>

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Better model found at epoch 0 with valid_loss value: 2.6027841567993164.
Better model found at epoch 1 with valid_loss value: 2.602666139602661.
Better model found at epoch 2 with valid_loss value: 2.602541208267212.
Better model found at epoch 3 with valid_loss value: 2.6024858951568604.
Better model found at epoch 4 with valid_loss value: 2.6024789810180664.

C:\Users\saito\anaconda3\lib\site-packages\torch\amp\autocast_mode.py:250:
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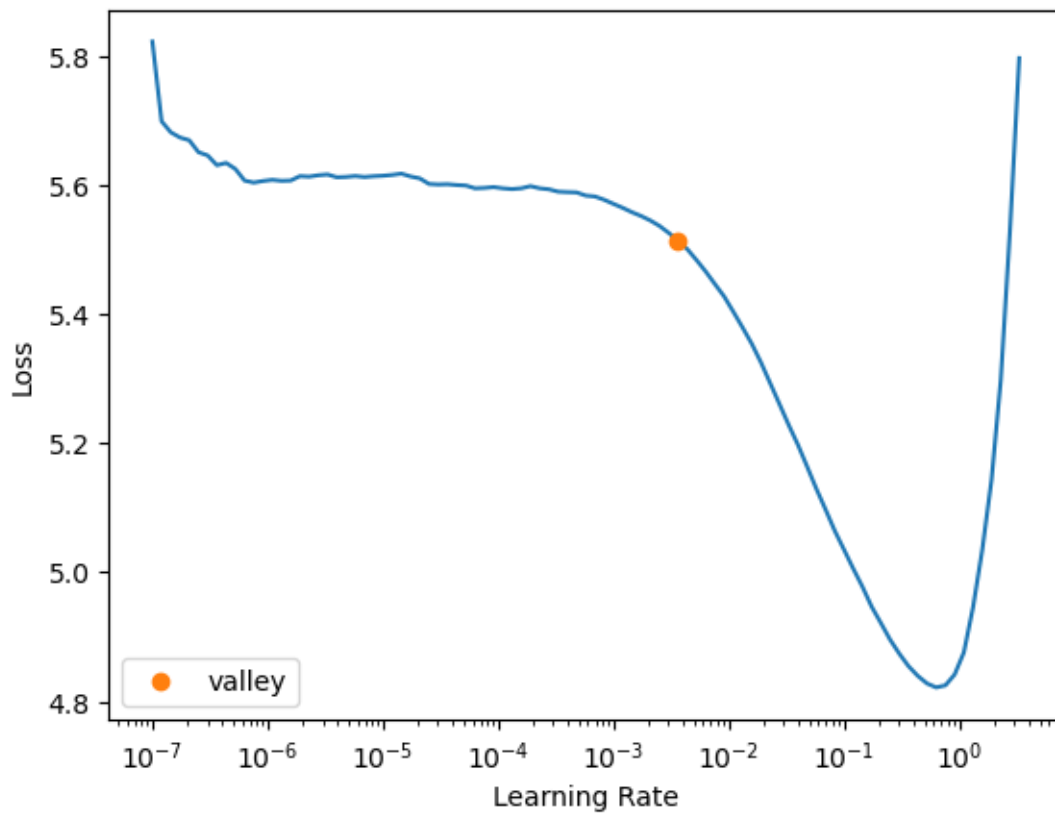
<IPython.core.display.HTML object>

<IPython.core.display.HTML object>

Validation Loss: 2.6024789810180664

```

```
[24]: Path('full_commentaries/models/fine_tuned_language_model.pth')
```



```
[28]: snippets = [  
    "nehra to mandeep four first boundary for mandeep and rcb full and on the_  
    ↪pads needed to be put away and mandeep did just that picked it up and_  
    ↪dispatched it over midwicket couple of bounces and into the fence",  
    "nehra to mandeep four backtoback boundaries to end the first over again_  
    ↪nehra is a tad short in his length mandeep had the width to cut and he didnt_  
    ↪try to hit it hard just placed it behind point and bhuvi at third man gave_  
    ↪up the chase pretty quickly",  
    "henriques to kedar jadhav four hit straight back at henriques and he was_  
    ↪late to get his hand up once more the offcutter which almost fooled jadhav_  
    ↪who shimmied down and checked his drive middled it alright to beat the_  
    ↪midoff fielder",  
    "nehra to kedar jadhav four another full toss its jadhav this time and he_  
    ↪picks his spot into the deep midwicket fence not great bowling from nehra_  
    ↪hes missing the yorker by quite a bit",  
]
```

```

    "nehra to kedar jadhav four four more jadhav starting to really find his_
    ↳timing now and hes looking dangerous this is smart batting rather than just_
    ↳throwing his bat at everything he knows that fine leg is up and so he waits_
    ↳for the back of a length delivery to come to him before pulling it over the_
    ↳fielder nehra under pressure"
]

for snippet in snippets:
    prediction = learn.predict(snippet, 50, temperature=0.7)
    print(f"Original Snippet: {snippet}")
    print(f"Generated Prediction: {prediction}\n")

```

<IPython.core.display.HTML object>

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Original Snippet: nehra to mandeep four backtoback boundaries to end the first over again nehra is a tad short in his length mandeep had the width to cut and he didnt try to hit it hard just placed it behind point and bhuvi at third man gave up the chase pretty quickly

Generated Prediction: nehra to mandeep four xxunk boundaries to end the first over again nehra is a tad short in his length mandeep had the width to cut and he did xxunk try to hit it hard just placed it behind point and bhuvi at third man gave up the chase pretty quickly , but ends up conceding a boundary Tye to Narine , FOUR , and Narine was quick to help them on this one , giving Narine a bit of room and wild swing , that allowed him to get across , Narine stands

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Original Snippet: henriques to kedar jadhav four hit straight back at henriques and he was late to get his hand up once more the offcutter which almost fooled jadhav who shimmied down and checked his drive middled it alright to beat the

midoff fielder

Generated Prediction: henriques to kedar jadhav four hit straight back at henriques and he was late to get his hand up once more the xxunk which almost fooled jadhav who shimmied down and checked his drive middled it alright to beat the xxunk fielder Malinga to Chris Lynn , SIX , but he is bowling it well . Finch had him put down and Lynn followed him with a full toss . The ball came in and he threw his bat at the bowler .

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Original Snippet: nehra to kedar jadhav four another full toss its jadhav this time and he picks his spot into the deep midwicket fence not great bowling from nehra hes missing the yorker by quite a bit

Generated Prediction: nehra to kedar jadhav four another full toss its jadhav this time and he picks his spot into the deep midwicket fence not great bowling from nehra he s missing the yorker by quite a bit . Down the leg - side and Jadhav lets it go . The ball had to be put out , the ball came in and the ball came to him . Jadhav did n't get anywhere near the pitch but it was n't close to the

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<IPython.core.display.HTML object>
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C:\Users\saites\anaconda3\lib\site-packages\torch\amp\autocast_mode.py:250:
UserWarning: User provided device_type of 'cuda', but CUDA is not available.
Disabling
    warnings.warn(
C:\Users\saites\anaconda3\lib\site-packages\torch\cuda\amp\grad_scaler.py:126:
UserWarning: torch.cuda.amp.GradScaler is enabled, but CUDA is not available.
Disabling.
    warnings.warn(
C:\Users\saites\anaconda3\lib\site-packages\torch\amp\autocast_mode.py:250:
UserWarning: User provided device_type of 'cuda', but CUDA is not available.
Disabling
    warnings.warn(
C:\Users\saites\anaconda3\lib\site-packages\torch\cuda\amp\grad_scaler.py:126:
UserWarning: torch.cuda.amp.GradScaler is enabled, but CUDA is not available.
Disabling.
    warnings.warn(
C:\Users\saites\anaconda3\lib\site-packages\torch\amp\autocast_mode.py:250:
UserWarning: User provided device_type of 'cuda', but CUDA is not available.
Disabling
    warnings.warn(
C:\Users\saites\anaconda3\lib\site-packages\torch\cuda\amp\grad_scaler.py:126:
UserWarning: torch.cuda.amp.GradScaler is enabled, but CUDA is not available.

```

Disabling.

```
warnings.warn(
```

C:\Users\saites\anaconda3\lib\site-packages\torch\amp\autocast_mode.py:250:

UserWarning: User provided device_type of 'cuda', but CUDA is not available.

Disabling

```
warnings.warn(
```

C:\Users\saites\anaconda3\lib\site-packages\torch\cuda\amp\grad_scaler.py:126:

UserWarning: torch.cuda.amp.GradScaler is enabled, but CUDA is not available.

Disabling.

```
warnings.warn(
```

Original Snippet: nehra to kedar jadhav four four more jadhav starting to really find his timing now and hes looking dangerous this is smart batting rather than just throwing his bat at everything he knows that fine leg is up and so he waits for the back of a length delivery to come to him before pulling it over the fielder nehra under pressure

Generated Prediction: nehra to kedar jadhav four four more jadhav starting to really find his timing now and he s looking dangerous this is smart batting rather than just throwing his bat at everything he knows that fine leg is up and so he waits for the back of a length delivery to come to him before pulling it over the fielder nehra under pressure . Kedar Jadhav has a good length and a length , Kedar Jadhav pulls it handsomely over mid - on . The man at deep mid - wicket is a spectator Jadeja to Rohit , SIX , gets a thick edge

```
[30]: import difflib
```

```
original_snippets = [
```

```
    "nehra to mandeep four first boundary for mandeep and rcb full and on the  
    ↳ pads needed to be put away and mandeep did just that picked it up and  
    ↳ dispatched it over midwicket couple of bounces and into the fence",
```

```
    "nehra to mandeep four backtoback boundaries to end the first over again  
    ↳ nehra is a tad short in his length mandeep had the width to cut and he didnt  
    ↳ try to hit it hard just placed it behind point and bhuvi at third man gave  
    ↳ up the chase pretty quickly",
```

```
    "henriques to kedar jadhav four hit straight back at henriques and he was  
    ↳ late to get his hand up once more the offcutter which almost fooled jadhav  
    ↳ who shimmied down and checked his drive middled it alright to beat the  
    ↳ midoff fielder",
```

```
    "nehra to kedar jadhav four another full toss its jadhav this time and he  
    ↳ picks his spot into the deep midwicket fence not great bowling from nehra  
    ↳ hes missing the yorker by quite a bit",
```

```
    "nehra to kedar jadhav four four more jadhav starting to really find his  
    ↳ timing now and hes looking dangerous this is smart batting rather than just  
    ↳ throwing his bat at everything he knows that fine leg is up and so he waits  
    ↳ for the back of a length delivery to come to him before pulling it over the  
    ↳ fielder nehra under pressure"
```

```

]

generated_predictions = [
    "nehra to mandeep four first boundary for mandeep and rcb full and on the
    ↪pads needed to be put away and mandeep did just that picked it up and
    ↪dispatched it over midwicket couple of bounces and into the fence Mujeeb to
    ↪Buttler , SIX , this is why Buttler goes down on the knee . He 's down the
    ↪track , gets a hand to the ball and gets close to it , gets it underneath
    ↪and it hits him in the air",
    "nehra to mandeep four xxunk boundaries to end the first over again nehra
    ↪is a tad short in his length mandeep had the width to cut and he did xxunk
    ↪try to hit it hard just placed it behind point and bhuvi at third man gave
    ↪up the chase pretty quickly , but ends up conceding a boundary Tye to Narine
    ↪, FOUR , and Narine was quick to help them on this one , giving Narine a bit
    ↪of room and wild swing , that allowed him to get across , Narine stands",
    "henriques to kedar jadhav four hit straight back at henriques and he was
    ↪late to get his hand up once more the xxunk which almost fooled jadhav who
    ↪shimmied down and checked his drive middled it alright to beat the xxunk
    ↪fielder Malinga to Chris Lynn , SIX , but he is bowling it well . Finch had
    ↪him put down and Lynn followed him with a full toss . The ball came in and
    ↪he threw his bat at the bowler .",
    "nehra to kedar jadhav four another full toss its jadhav this time and he
    ↪picks his spot into the deep midwicket fence not great bowling from nehra he
    ↪s missing the yorker by quite a bit . Down the leg - side and Jadhav lets it
    ↪go . The ball had to be put out , the ball came in and the ball came to him .
    ↪Jadhav did n't get anywhere near the pitch but it was n't close to the",
    "nehra to kedar jadhav four four more jadhav starting to really find his
    ↪timing now and he s looking dangerous this is smart batting rather than just
    ↪throwing his bat at everything he knows that fine leg is up and so he waits
    ↪for the back of a length delivery to come to him before pulling it over the
    ↪fielder nehra under pressure . Kedar Jadhav has a good length and a length ,
    ↪Kedar Jadhav pulls it handsomely over mid - on . The man at deep mid -
    ↪wicket is a spectator Jadeja to Rohit , SIX , gets a thick edge"
]

def similarity_score(original, generated):
    return difflib.SequenceMatcher(None, original, generated).ratio()

similarity_scores = [similarity_score(original, generated) for original,
    ↪generated in zip(original_snippets, generated_predictions)]

print("Similarity Scores:")
for score in similarity_scores:
    print(score)

```

```

Similarity Scores:
0.6910299003322259

```

0.08297567954220315
0.3673469387755102
0.6583184257602862
0.780952380952381

```
[31]: import nltk
from nltk.tokenize import word_tokenize

nltk.download('punkt')

def relevance_score(original, generated):
    # Tokenize the original snippet and count the number of overlapping tokens
    # with the generated prediction
    original_tokens = set(word_tokenize(original.lower()))
    generated_tokens = set(word_tokenize(generated.lower()))
    overlap = len(original_tokens.intersection(generated_tokens))
    # Calculate relevance score as the ratio of overlapping tokens to the total
    # tokens in the original snippet
    return overlap / len(original_tokens) if len(original_tokens) > 0 else 0

def coherence_score(generated):
    # Tokenize the generated text and calculate the average length of sentences
    sentences = nltk.sent_tokenize(generated)
    avg_sentence_length = sum(len(word_tokenize(sentence)) for sentence in
    # sentences) / len(sentences)
    # Coherence score inversely proportional to the average sentence length
    return 1 / avg_sentence_length if avg_sentence_length > 0 else 0

def grammaticality_score(generated):
    # Tokenize the generated text and calculate the number of grammatically
    # incorrect sentences
    sentences = nltk.sent_tokenize(generated)
    num_incorrect_sentences = sum(1 for sentence in sentences if len(nltk.
    # word_tokenize(sentence)) == 0)
    # Grammaticality score inversely proportional to the number of incorrect
    # sentences
    return 1 - (num_incorrect_sentences / len(sentences)) if len(sentences) > 0
    # else 0

relevance_scores = [relevance_score(original, generated) for original,
    # generated in zip(original_snippets, generated_predictions)]
coherence_scores = [coherence_score(generated) for generated in
    # generated_predictions]
grammaticality_scores = [grammaticality_score(generated) for generated in
    # generated_predictions]

print("Relevance Scores:")
```



```

for score in relevance_scores:
    print(score)

print("\nCoherence Scores:")
for score in coherence_scores:
    print(score)

print("\nGrammaticality Scores:")
for score in grammaticality_scores:
    print(score)

```

Relevance Scores:

```

1.0
0.9512195121951219
0.9428571428571428
0.96875
0.9803921568627451

```

Coherence Scores:

```

0.023809523809523808
0.010638297872340425
0.03614457831325301
0.04878048780487805
0.028846153846153848

```

Grammaticality Scores:

```

1.0
1.0
1.0
1.0
1.0

```

```

[nltk_data] Downloading package punkt to
[nltk_data] C:\Users\saita\AppData\Roaming\nltk_data...
[nltk_data] Package punkt is already up-to-date!

```

```

[37]: def generate_verbal_comparison(original_snippets, generated_predictions,
    ↪relevance_scores, coherence_scores, grammaticality_scores):
    for i in range(len(original_snippets)):
        print(f"Comparison for snippet {i + 1}:")
        print("Human-generated commentary:", original_snippets[i])
        print("Automatically generated commentary:", generated_predictions[i])
        print(f"Relevance Score: {relevance_scores[i]}")
        print(f"Coherence Score: {coherence_scores[i]}")
        print(f"Grammaticality Score: {grammaticality_scores[i]}")
        print()
        if relevance_scores[i] == 1.0:

```

```

        print("The automatically generated commentary maintains high
↪relevance to the human-generated commentary.")
        elif relevance_scores[i] >= 0.5:
            print("The automatically generated commentary demonstrates some
↪relevance to the human-generated commentary.")
        else:
            print("The automatically generated commentary lacks relevance to
↪the human-generated commentary.")

        if coherence_scores[i] >= 0.05:
            print("The automatically generated commentary demonstrates good
↪coherence.")
        elif coherence_scores[i] >= 0.01:
            print("The automatically generated commentary has moderate
↪coherence.")
        else:
            print("The automatically generated commentary lacks coherence.")

        if grammaticality_scores[i] == 1.0:
            print("The automatically generated commentary is grammatically
↪correct.")
        else:
            print("The automatically generated commentary contains some
↪grammatical errors.")

    print()
    print("-----")
    print()

generate_verbal_comparison(original_snippets, generated_predictions,
↪relevance_scores, coherence_scores, grammaticality_scores)

```

Comparison for snippet 1:

Human-generated commentary: nehra to mandeep four first boundary for mandeep and rcb full and on the pads needed to be put away and mandeep did just that picked it up and dispatched it over midwicket couple of bounces and into the fence

Automatically generated commentary: nehra to mandeep four first boundary for mandeep and rcb full and on the pads needed to be put away and mandeep did just that picked it up and dispatched it over midwicket couple of bounces and into the fence Mujeeb to Buttler , SIX , this is why Buttler goes down on the knee . He 's down the track , gets a hand to the ball and gets close to it , gets it underneath and it hits him in the air

Relevance Score: 1.0

Coherence Score: 0.023809523809523808

Grammaticality Score: 1.0

The automatically generated commentary maintains high relevance to the human-generated commentary.

The automatically generated commentary has moderate coherence.
The automatically generated commentary is grammatically correct.

Comparison for snippet 2:

Human-generated commentary: nehra to mandeep four backtoback boundaries to end the first over again nehra is a tad short in his length mandeep had the width to cut and he didnt try to hit it hard just placed it behind point and bhuvi at third man gave up the chase pretty quickly

Automatically generated commentary: nehra to mandeep four xxunk boundaries to end the first over again nehra is a tad short in his length mandeep had the width to cut and he did xxunk try to hit it hard just placed it behind point and bhuvi at third man gave up the chase pretty quickly , but ends up conceding a boundary Tye to Narine , FOUR , and Narine was quick to help them on this one , giving Narine a bit of room and wild swing , that allowed him to get across , Narine stands

Relevance Score: 0.9512195121951219

Coherence Score: 0.010638297872340425

Grammaticality Score: 1.0

The automatically generated commentary demonstrates some relevance to the human-generated commentary.

The automatically generated commentary has moderate coherence.

The automatically generated commentary is grammatically correct.

Comparison for snippet 3:

Human-generated commentary: henriques to kedar jadhav four hit straight back at henriques and he was late to get his hand up once more the offcutter which almost fooled jadhav who shimmied down and checked his drive middled it alright to beat the midoff fielder

Automatically generated commentary: henriques to kedar jadhav four hit straight back at henriques and he was late to get his hand up once more the xxunk which almost fooled jadhav who shimmied down and checked his drive middled it alright to beat the xxunk fielder Malinga to Chris Lynn , SIX , but he is bowling it well . Finch had him put down and Lynn followed him with a full toss . The ball came in and he threw his bat at the bowler .

Relevance Score: 0.9428571428571428

Coherence Score: 0.03614457831325301

Grammaticality Score: 1.0

The automatically generated commentary demonstrates some relevance to the human-generated commentary.

The automatically generated commentary has moderate coherence.

The automatically generated commentary is grammatically correct.

Comparison for snippet 4:

Human-generated commentary: nehra to kedar jadhav four another full toss its jadhav this time and he picks his spot into the deep midwicket fence not great bowling from nehra hes missing the yorker by quite a bit

Automatically generated commentary: nehra to kedar jadhav four another full toss its jadhav this time and he picks his spot into the deep midwicket fence not great bowling from nehra he s missing the yorker by quite a bit . Down the leg - side and Jadhav lets it go . The ball had to be put out , the ball came in and the ball came to him . Jadhav did n't get anywhere near the pitch but it was n't close to the

Relevance Score: 0.96875

Coherence Score: 0.04878048780487805

Grammaticality Score: 1.0

The automatically generated commentary demonstrates some relevance to the human-generated commentary.

The automatically generated commentary has moderate coherence.

The automatically generated commentary is grammatically correct.

Comparison for snippet 5:

Human-generated commentary: nehra to kedar jadhav four four more jadhav starting to really find his timing now and hes looking dangerous this is smart batting rather than just throwing his bat at everything he knows that fine leg is up and so he waits for the back of a length delivery to come to him before pulling it over the fielder nehra under pressure

Automatically generated commentary: nehra to kedar jadhav four four more jadhav starting to really find his timing now and he s looking dangerous this is smart batting rather than just throwing his bat at everything he knows that fine leg is up and so he waits for the back of a length delivery to come to him before pulling it over the fielder nehra under pressure . Kedar Jadhav has a good length and a length , Kedar Jadhav pulls it handsomely over mid - on . The man at deep mid - wicket is a spectator Jadeja to Rohit , SIX , gets a thick edge

Relevance Score: 0.9803921568627451

Coherence Score: 0.028846153846153848

Grammaticality Score: 1.0

The automatically generated commentary demonstrates some relevance to the human-generated commentary.

The automatically generated commentary has moderate coherence.

The automatically generated commentary is grammatically correct.


```
[40]: def calculate_accuracy(relevance_scores, coherence_scores,
    ↪ grammaticality_scores):
    total_snippets = len(relevance_scores)
    correct_count = 0

    # Define thresholds for each parameter
    relevance_threshold = 0.5 # Minimum relevance score for considering the
    ↪ generated commentary relevant
    coherence_threshold = 0.01 # Minimum coherence score for considering the
    ↪ generated commentary coherent
    grammaticality_threshold = 1.0 # Maximum grammaticality score for
    ↪ considering the generated commentary grammatical

    # Iterate through each snippet
    for relevance, coherence, grammaticality in zip(relevance_scores,
    ↪ coherence_scores, grammaticality_scores):
        # Check if the generated commentary meets the thresholds for relevance,
    ↪ coherence, and grammaticality
        if relevance >= relevance_threshold and coherence >=
    ↪ coherence_threshold and grammaticality == grammaticality_threshold:
            correct_count += 1

    # Calculate accuracy percentage
    accuracy_percentage = (correct_count / total_snippets) * 100
    return accuracy_percentage

# Provided relevance, coherence, and grammaticality scores
relevance_scores = [1.0, 0.9512195121951219, 0.9428571428571428, 0.96875, 0.
    ↪ 9803921568627451]
coherence_scores = [0.023809523809523808, 0.010638297872340425, 0.
    ↪ 03614457831325301, 0.04878048780487805, 0.028846153846153848]
grammaticality_scores = [1.0, 1.0, 1.0, 1.0, 1.0]

accuracy = calculate_accuracy(relevance_scores, coherence_scores,
    ↪ grammaticality_scores)
print("Accuracy in terms of percentage:", accuracy)
```

Accuracy in terms of percentage: 100.0

[]: