

NLP_Proj

April 18, 2025

1 Final Project - NLP Project

1.0.1 Course: PROG8245- Machine Learning Programming

1.0.2 Team - Members:

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1.1 Tai Siang Huang - Student number: 9006413

```
[ ]: from google.colab import drive  
drive.mount('/content/drive')
```

Mounted at /content/drive

```
[ ]: # Install required libraries  
!pip install -q transformers tqdm  
!pip install -q nltk emoji  
!pip install -q sentence-transformers
```

	590.6/590.6 kB
33.2 MB/s eta 0:00:00	363.4/363.4 MB
3.0 MB/s eta 0:00:00	13.8/13.8 MB
109.8 MB/s eta 0:00:00	24.6/24.6 MB
83.9 MB/s eta 0:00:00	883.7/883.7 kB
49.3 MB/s eta 0:00:00	664.8/664.8 MB
2.0 MB/s eta 0:00:00	211.5/211.5 MB
4.7 MB/s eta 0:00:00	56.3/56.3 MB
41.7 MB/s eta 0:00:00	127.9/127.9 MB
18.9 MB/s eta 0:00:00	

207.5/207.5 MB
5.9 MB/s eta 0:00:00
21.1/21.1 MB
86.4 MB/s eta 0:00:00

```
[ ]: # Check if GPU is available
import torch
print("Using GPU" if torch.cuda.is_available() else "Using CPU")
```

Using GPU

```
[ ]: import os
import gc
import numpy as np
import pandas as pd
from tqdm import tqdm

import matplotlib.pyplot as plt

from sklearn.model_selection import train_test_split
from sklearn.feature_extraction.text import CountVectorizer, TfidfVectorizer
from sklearn.metrics import classification_report, confusion_matrix
from sklearn.naive_bayes import MultinomialNB
from sklearn.linear_model import LogisticRegression
from sklearn.neural_network import MLPClassifier
import seaborn as sns
import joblib
from scipy import sparse
from sentence_transformers import SentenceTransformer

import re
import nltk
import emoji
from nltk.tokenize import word_tokenize
from nltk.corpus import stopwords
from nltk.stem import WordNetLemmatizer
from transformers import pipeline

# Download NLTK resources
nltk.download("punkt")
nltk.download("stopwords")
nltk.download("wordnet")
```

```
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data] Unzipping tokenizers/punkt.zip.
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Unzipping corpora/stopwords.zip.
```

```
[nltk_data] Downloading package wordnet to /root/nltk_data...
```

```
[ ]: True
```

1.2 1. Data Collection

1.2.1 About the dataset - 'Sentiment140'

The Sentiment140 dataset contains 1,600,000 tweets collected via the Twitter API. Each tweet is labeled with sentiment: 0 for negative and 4 for positive, making the dataset suitable for sentiment analysis tasks.

1.2.2 Load dataset

```
[ ]: path = "/content/drive/MyDrive/NLP_Proj/training.1600000.processed.noemoticon.
      ↪CSV"
raw_df = pd.read_csv(path, encoding='latin-1',
      ↪names=['target', 'ids', 'date', 'flag', 'user', 'text'])
print(f"Load dataframe from {path}, Shape: {raw_df.shape}")
pd.set_option('display.max_colwidth', None)
display(raw_df.head()) # print the first 5 rows of the dataset
```

```
Load dataframe from
/content/drive/MyDrive/NLP_Proj/training.1600000.processed.noemoticon.csv,
Shape: (1600000, 6)
```

	target	ids	date	flag	\
0	0	1467810369	Mon Apr 06 22:19:45 PDT 2009	NO_QUERY	
1	0	1467810672	Mon Apr 06 22:19:49 PDT 2009	NO_QUERY	
2	0	1467810917	Mon Apr 06 22:19:53 PDT 2009	NO_QUERY	
3	0	1467811184	Mon Apr 06 22:19:57 PDT 2009	NO_QUERY	
4	0	1467811193	Mon Apr 06 22:19:57 PDT 2009	NO_QUERY	

	user	\
0	_TheSpecialOne_	
1	scotthamilton	
2	mattycus	
3	ElleCTF	
4	Karoli	

	text
0	@switchfoot http://twitpic.com/2y1zl - Awww, that's a bummer. You shoulda got David Carr of Third Day to do it. ;D
1	is upset that he can't update his Facebook by texting it... and might cry as a result School today also. Blah!
2	@Kenichan I dived many times for the ball. Managed to save 50% The rest go out of bounds

```

3                                     my whole
↳body feels itchy and like its on fire
4    @nationwideclass no, it's not behaving at all. i'm mad. why am i here?
↳because I can't see you all over there.

```

1.3 Annotation: two methods

- by target columns in the original dataset
- by huggingface pretrained model ‘transformer “sentiment-analysis”’

1.3.1 Method 1 - annotate by target

```

[ ]: # Define label mapping from target column
label_map = {0: 'negative', 2: 'neutral', 4: 'positive'}

# Create a new DataFrame that includes text and mapped sentiment labels
df_method1 = raw_df[['text']].copy() # Keep only text for now
df_method1['sentiment_label_method1'] = raw_df['target'].map(label_map)

# Display preview
df_method1.head()

```

```

[ ]:                                     text \
0    @switchfoot http://twitpic.com/2y1zl - Awww, that's a bummer. You shoulda
got David Carr of Third Day to do it. ;D
1        is upset that he can't update his Facebook by texting it... and might cry
as a result  School today also. Blah!
2                                     @Kenichan I dived many times for the ball. Managed
to save 50%  The rest go out of bounds
3                                     my whole
body feels itchy and like its on fire
4    @nationwideclass no, it's not behaving at all. i'm mad. why am i here?
because I can't see you all over there.

    sentiment_label_method1
0                negative
1                negative
2                negative
3                negative
4                negative

```

1.3.2 Method 2 - annotate by target by transformer “sentiment-analysis”

- Model: distilbert-base-uncased-finetuned-sst-2-english

```

[ ]: # Load a pre-trained model for 3-class sentiment classification
classifier = pipeline(
    "sentiment-analysis",

```

```

model="cardiffnlp/twitter-roberta-base-sentiment",
tokenizer="cardiffnlp/twitter-roberta-base-sentiment",
device=0 # Use GPU (device 0)
)

# Mapping of model labels to sentiment classes
label_map = {
    "LABEL_0": "negative",
    "LABEL_1": "neutral",
    "LABEL_2": "positive"
}

# Enable tqdm progress bar for pandas apply
tqdm.pandas()

# Function to get sentiment label from model
def predict_sentiment(text):
    result = classifier(text, truncation=True, max_length=512)[0] # Truncate
    ↪ input to 512 tokens
    return label_map[result['label']]

```

/usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/_auth.py:94:

UserWarning:

The secret `HF_TOKEN` does not exist in your Colab secrets.

To authenticate with the Hugging Face Hub, create a token in your settings tab (<https://huggingface.co/settings/tokens>), set it as secret in your Google Colab and restart your session.

You will be able to reuse this secret in all of your notebooks.

Please note that authentication is recommended but still optional to access public models or datasets.

warnings.warn(

config.json: 0%| | 0.00/747 [00:00<?, ?B/s]

Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed.

Falling back to regular HTTP download. For better performance, install the

package with: `pip install huggingface_hub[hf_xet]` or `pip install hf_xet`

WARNING:huggingface_hub.file_download:Xet Storage is enabled for this repo, but

the 'hf_xet' package is not installed. Falling back to regular HTTP download.

For better performance, install the package with: `pip install

huggingface_hub[hf_xet]` or `pip install hf_xet`

pytorch_model.bin: 0%| | 0.00/499M [00:00<?, ?B/s]

vocab.json: 0%| | 0.00/899k [00:00<?, ?B/s]

Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed.

Falling back to regular HTTP download. For better performance, install the

package with: `pip install huggingface_hub[hf_xet]` or `pip install hf_xet`

WARNING:huggingface_hub.file_download:Xet Storage is enabled for this repo, but

the 'hf_xet' package is not installed. Falling back to regular HTTP download.
For better performance, install the package with: `pip install huggingface_hub[hf_xet]` or `pip install hf_xet`

```
model.safetensors: 0%|          | 0.00/499M [00:00<?, ?B/s]
merges.txt: 0%|          | 0.00/456k [00:00<?, ?B/s]
special_tokens_map.json: 0%|          | 0.00/150 [00:00<?, ?B/s]
Device set to use cuda:0
```

```
[ ]: def clear_buffer(_var):
    # Delete the classifier pipeline object
    del _var

    # Force Python to release unused memory
    gc.collect()

    # Clear GPU memory cache
    torch.cuda.empty_cache()
    return
```

1.3.3 Store the annotation results into df_method2

```
[ ]: # Set batch size and calculate total number of rows
batch_size = 1000
total = len(raw_df)

output_folder = "/content/drive/MyDrive/NLP_Proj/Output/"
os.makedirs(output_folder, exist_ok=True)

# Loop over the dataset in batches
for start in range(0, total, batch_size):
    end = min(start + batch_size, total)
    print(f"Processing rows {start} to {end - 1}")
    filename = f"{output_folder}method2_annotation_{start:06d}_to_{end-1:06d}.
    ↪csv"
    if os.path.exists(filename):
        print(f"\t>>>File already exists: {filename}, skipping...")
        continue

    # Select only the 'text' column for this batch
    df_method2 = raw_df[['text']].iloc[start:end].copy()

    # Apply the sentiment analysis model to each row
    df_method2['sentiment_label_method2'] = df_method2['text'].
    ↪progress_apply(predict_sentiment)
```

```

# Save the batch to a CSV file with a clear filename
# filename = f"{output_folder}method2_annotation_{start:06d}_to_{end-1:06d}.
↪ csv"
df_method2.to_csv(filename, index=False)
print(f"Saved to {filename}")

```

Processing rows 0 to 999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_000000_to_000999.csv,
skipping...

Processing rows 1000 to 1999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_001000_to_001999.csv,
skipping...

Processing rows 2000 to 2999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_002000_to_002999.csv,
skipping...

Processing rows 3000 to 3999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_003000_to_003999.csv,
skipping...

Processing rows 4000 to 4999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_004000_to_004999.csv,
skipping...

Processing rows 5000 to 5999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_005000_to_005999.csv,
skipping...

Processing rows 6000 to 6999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_006000_to_006999.csv,
skipping...

Processing rows 7000 to 7999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_007000_to_007999.csv,
skipping...

Processing rows 8000 to 8999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_008000_to_008999.csv,
skipping...

Processing rows 9000 to 9999

>>>File already exists:

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_009000_to_009999.csv,
skipping...

Processing rows 10000 to 10999

>>>File already exists:

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_010000_to_010999.csv,  
skipping...  
Processing rows 11000 to 11999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_011000_to_011999.csv,  
skipping...  
Processing rows 12000 to 12999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_012000_to_012999.csv,  
skipping...  
Processing rows 13000 to 13999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_013000_to_013999.csv,  
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Processing rows 14000 to 14999  
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skipping...  
Processing rows 15000 to 15999  
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Processing rows 16000 to 16999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_016000_to_016999.csv,  
skipping...  
Processing rows 17000 to 17999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_017000_to_017999.csv,  
skipping...  
Processing rows 18000 to 18999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_018000_to_018999.csv,  
skipping...  
Processing rows 19000 to 19999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_019000_to_019999.csv,  
skipping...  
Processing rows 20000 to 20999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_020000_to_020999.csv,  
skipping...  
Processing rows 21000 to 21999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_021000_to_021999.csv,  
skipping...  
Processing rows 22000 to 22999  
    >>>File already exists:
```



```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_022000_to_022999.csv,  
skipping...  
Processing rows 23000 to 23999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_023000_to_023999.csv,  
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Processing rows 24000 to 24999  
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Processing rows 25000 to 25999  
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Processing rows 26000 to 26999  
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Processing rows 27000 to 27999  
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Processing rows 28000 to 28999  
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Processing rows 29000 to 29999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_029000_to_029999.csv,  
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Processing rows 30000 to 30999  
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Processing rows 31000 to 31999  
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Processing rows 32000 to 32999  
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Processing rows 33000 to 33999  
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skipping...  
Processing rows 34000 to 34999  
    >>>File already exists:
```

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Processing rows 38000 to 38999
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Processing rows 46000 to 46999
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Processing rows 58000 to 58999
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```
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Processing rows 70000 to 70999
    >>>File already exists:
```

```
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Processing rows 71000 to 71999
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skipping...
Processing rows 72000 to 72999
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skipping...
Processing rows 73000 to 73999
    >>>File already exists:
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skipping...
Processing rows 74000 to 74999
    >>>File already exists:
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skipping...
Processing rows 75000 to 75999
    >>>File already exists:
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skipping...
Processing rows 76000 to 76999
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Processing rows 77000 to 77999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_077000_to_077999.csv,
skipping...
Processing rows 78000 to 78999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_078000_to_078999.csv,
skipping...
Processing rows 79000 to 79999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_079000_to_079999.csv,
skipping...
Processing rows 80000 to 80999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_080000_to_080999.csv,
skipping...
Processing rows 81000 to 81999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_081000_to_081999.csv,
skipping...
Processing rows 82000 to 82999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_082000_to_082999.csv,  
skipping...  
Processing rows 83000 to 83999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_083000_to_083999.csv,  
skipping...  
Processing rows 84000 to 84999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_084000_to_084999.csv,  
skipping...  
Processing rows 85000 to 85999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_085000_to_085999.csv,  
skipping...  
Processing rows 86000 to 86999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_086000_to_086999.csv,  
skipping...  
Processing rows 87000 to 87999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_087000_to_087999.csv,  
skipping...  
Processing rows 88000 to 88999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_088000_to_088999.csv,  
skipping...  
Processing rows 89000 to 89999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_089000_to_089999.csv,  
skipping...  
Processing rows 90000 to 90999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_090000_to_090999.csv,  
skipping...  
Processing rows 91000 to 91999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_091000_to_091999.csv,  
skipping...  
Processing rows 92000 to 92999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_092000_to_092999.csv,  
skipping...  
Processing rows 93000 to 93999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_093000_to_093999.csv,  
skipping...  
Processing rows 94000 to 94999  
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_094000_to_094999.csv,
skipping...
Processing rows 95000 to 95999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_095000_to_095999.csv,
skipping...
Processing rows 96000 to 96999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_096000_to_096999.csv,
skipping...
Processing rows 97000 to 97999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_097000_to_097999.csv,
skipping...
Processing rows 98000 to 98999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_098000_to_098999.csv,
skipping...
Processing rows 99000 to 99999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_099000_to_099999.csv,
skipping...
Processing rows 100000 to 100999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_100000_to_100999.csv,
skipping...
Processing rows 101000 to 101999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_101000_to_101999.csv,
skipping...
Processing rows 102000 to 102999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_102000_to_102999.csv,
skipping...
Processing rows 103000 to 103999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_103000_to_103999.csv,
skipping...
Processing rows 104000 to 104999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_104000_to_104999.csv,
skipping...
Processing rows 105000 to 105999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_105000_to_105999.csv,
skipping...
Processing rows 106000 to 106999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_106000_to_106999.csv,
skipping...
Processing rows 107000 to 107999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_107000_to_107999.csv,
skipping...
Processing rows 108000 to 108999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_108000_to_108999.csv,
skipping...
Processing rows 109000 to 109999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_109000_to_109999.csv,
skipping...
Processing rows 110000 to 110999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_110000_to_110999.csv,
skipping...
Processing rows 111000 to 111999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_111000_to_111999.csv,
skipping...
Processing rows 112000 to 112999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_112000_to_112999.csv,
skipping...
Processing rows 113000 to 113999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_113000_to_113999.csv,
skipping...
Processing rows 114000 to 114999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_114000_to_114999.csv,
skipping...
Processing rows 115000 to 115999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_115000_to_115999.csv,
skipping...
Processing rows 116000 to 116999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_116000_to_116999.csv,
skipping...
Processing rows 117000 to 117999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_117000_to_117999.csv,
skipping...
Processing rows 118000 to 118999
    >>>File already exists:
```



```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_118000_to_118999.csv,  
skipping...  
Processing rows 119000 to 119999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_119000_to_119999.csv,  
skipping...  
Processing rows 120000 to 120999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_120000_to_120999.csv,  
skipping...  
Processing rows 121000 to 121999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_121000_to_121999.csv,  
skipping...  
Processing rows 122000 to 122999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_122000_to_122999.csv,  
skipping...  
Processing rows 123000 to 123999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_123000_to_123999.csv,  
skipping...  
Processing rows 124000 to 124999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_124000_to_124999.csv,  
skipping...  
Processing rows 125000 to 125999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_125000_to_125999.csv,  
skipping...  
Processing rows 126000 to 126999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_126000_to_126999.csv,  
skipping...  
Processing rows 127000 to 127999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_127000_to_127999.csv,  
skipping...  
Processing rows 128000 to 128999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_128000_to_128999.csv,  
skipping...  
Processing rows 129000 to 129999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_129000_to_129999.csv,  
skipping...  
Processing rows 130000 to 130999  
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_130000_to_130999.csv,
skipping...
Processing rows 131000 to 131999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_131000_to_131999.csv,
skipping...
Processing rows 132000 to 132999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_132000_to_132999.csv,
skipping...
Processing rows 133000 to 133999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_133000_to_133999.csv,
skipping...
Processing rows 134000 to 134999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_134000_to_134999.csv,
skipping...
Processing rows 135000 to 135999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_135000_to_135999.csv,
skipping...
Processing rows 136000 to 136999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_136000_to_136999.csv,
skipping...
Processing rows 137000 to 137999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_137000_to_137999.csv,
skipping...
Processing rows 138000 to 138999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_138000_to_138999.csv,
skipping...
Processing rows 139000 to 139999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_139000_to_139999.csv,
skipping...
Processing rows 140000 to 140999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_140000_to_140999.csv,
skipping...
Processing rows 141000 to 141999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_141000_to_141999.csv,
skipping...
Processing rows 142000 to 142999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_142000_to_142999.csv,
skipping...
Processing rows 143000 to 143999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_143000_to_143999.csv,
skipping...
Processing rows 144000 to 144999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_144000_to_144999.csv,
skipping...
Processing rows 145000 to 145999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_145000_to_145999.csv,
skipping...
Processing rows 146000 to 146999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_146000_to_146999.csv,
skipping...
Processing rows 147000 to 147999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_147000_to_147999.csv,
skipping...
Processing rows 148000 to 148999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_148000_to_148999.csv,
skipping...
Processing rows 149000 to 149999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_149000_to_149999.csv,
skipping...
Processing rows 150000 to 150999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_150000_to_150999.csv,
skipping...
Processing rows 151000 to 151999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_151000_to_151999.csv,
skipping...
Processing rows 152000 to 152999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_152000_to_152999.csv,
skipping...
Processing rows 153000 to 153999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_153000_to_153999.csv,
skipping...
Processing rows 154000 to 154999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_154000_to_154999.csv,
skipping...
Processing rows 155000 to 155999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_155000_to_155999.csv,
skipping...
Processing rows 156000 to 156999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_156000_to_156999.csv,
skipping...
Processing rows 157000 to 157999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_157000_to_157999.csv,
skipping...
Processing rows 158000 to 158999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_158000_to_158999.csv,
skipping...
Processing rows 159000 to 159999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_159000_to_159999.csv,
skipping...
Processing rows 160000 to 160999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_160000_to_160999.csv,
skipping...
Processing rows 161000 to 161999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_161000_to_161999.csv,
skipping...
Processing rows 162000 to 162999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_162000_to_162999.csv,
skipping...
Processing rows 163000 to 163999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_163000_to_163999.csv,
skipping...
Processing rows 164000 to 164999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_164000_to_164999.csv,
skipping...
Processing rows 165000 to 165999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_165000_to_165999.csv,
skipping...
Processing rows 166000 to 166999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_166000_to_166999.csv,  
skipping...  
Processing rows 167000 to 167999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_167000_to_167999.csv,  
skipping...  
Processing rows 168000 to 168999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_168000_to_168999.csv,  
skipping...  
Processing rows 169000 to 169999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_169000_to_169999.csv,  
skipping...  
Processing rows 170000 to 170999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_170000_to_170999.csv,  
skipping...  
Processing rows 171000 to 171999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_171000_to_171999.csv,  
skipping...  
Processing rows 172000 to 172999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_172000_to_172999.csv,  
skipping...  
Processing rows 173000 to 173999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_173000_to_173999.csv,  
skipping...  
Processing rows 174000 to 174999  
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skipping...  
Processing rows 175000 to 175999  
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skipping...  
Processing rows 176000 to 176999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_176000_to_176999.csv,  
skipping...  
Processing rows 177000 to 177999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_177000_to_177999.csv,  
skipping...  
Processing rows 178000 to 178999  
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_178000_to_178999.csv,
skipping...
Processing rows 179000 to 179999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_179000_to_179999.csv,
skipping...
Processing rows 180000 to 180999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_180000_to_180999.csv,
skipping...
Processing rows 181000 to 181999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_181000_to_181999.csv,
skipping...
Processing rows 182000 to 182999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_182000_to_182999.csv,
skipping...
Processing rows 183000 to 183999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_183000_to_183999.csv,
skipping...
Processing rows 184000 to 184999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_184000_to_184999.csv,
skipping...
Processing rows 185000 to 185999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_185000_to_185999.csv,
skipping...
Processing rows 186000 to 186999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_186000_to_186999.csv,
skipping...
Processing rows 187000 to 187999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_187000_to_187999.csv,
skipping...
Processing rows 188000 to 188999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_188000_to_188999.csv,
skipping...
Processing rows 189000 to 189999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_189000_to_189999.csv,
skipping...
Processing rows 190000 to 190999
    >>>File already exists:
```

```

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_190000_to_190999.csv,
skipping...
Processing rows 191000 to 191999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_191000_to_191999.csv,
skipping...
Processing rows 192000 to 192999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_192000_to_192999.csv,
skipping...
Processing rows 193000 to 193999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_193000_to_193999.csv,
skipping...
Processing rows 194000 to 194999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_194000_to_194999.csv,
skipping...
Processing rows 195000 to 195999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_195000_to_195999.csv,
skipping...
Processing rows 196000 to 196999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_196000_to_196999.csv,
skipping...
Processing rows 197000 to 197999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_197000_to_197999.csv,
skipping...
Processing rows 198000 to 198999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_198000_to_198999.csv,
skipping...
Processing rows 199000 to 199999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_199000_to_199999.csv,
skipping...
Processing rows 200000 to 200999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_200000_to_200999.csv,
skipping...
Processing rows 201000 to 201999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_201000_to_201999.csv,
skipping...
Processing rows 202000 to 202999
    >>>File already exists:

```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_202000_to_202999.csv,  
skipping...  
Processing rows 203000 to 203999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_203000_to_203999.csv,  
skipping...  
Processing rows 204000 to 204999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_204000_to_204999.csv,  
skipping...  
Processing rows 205000 to 205999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_205000_to_205999.csv,  
skipping...  
Processing rows 206000 to 206999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_206000_to_206999.csv,  
skipping...  
Processing rows 207000 to 207999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_207000_to_207999.csv,  
skipping...  
Processing rows 208000 to 208999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_208000_to_208999.csv,  
skipping...  
Processing rows 209000 to 209999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_209000_to_209999.csv,  
skipping...  
Processing rows 210000 to 210999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_210000_to_210999.csv,  
skipping...  
Processing rows 211000 to 211999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_211000_to_211999.csv,  
skipping...  
Processing rows 212000 to 212999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_212000_to_212999.csv,  
skipping...  
Processing rows 213000 to 213999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_213000_to_213999.csv,  
skipping...  
Processing rows 214000 to 214999  
    >>>File already exists:
```



```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_214000_to_214999.csv,
skipping...
Processing rows 215000 to 215999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_215000_to_215999.csv,
skipping...
Processing rows 216000 to 216999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_216000_to_216999.csv,
skipping...
Processing rows 217000 to 217999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_217000_to_217999.csv,
skipping...
Processing rows 218000 to 218999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_218000_to_218999.csv,
skipping...
Processing rows 219000 to 219999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_219000_to_219999.csv,
skipping...
Processing rows 220000 to 220999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_220000_to_220999.csv,
skipping...
Processing rows 221000 to 221999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_221000_to_221999.csv,
skipping...
Processing rows 222000 to 222999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_222000_to_222999.csv,
skipping...
Processing rows 223000 to 223999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_223000_to_223999.csv,
skipping...
Processing rows 224000 to 224999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_224000_to_224999.csv,
skipping...
Processing rows 225000 to 225999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_225000_to_225999.csv,
skipping...
Processing rows 226000 to 226999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_226000_to_226999.csv,
skipping...
Processing rows 227000 to 227999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_227000_to_227999.csv,
skipping...
Processing rows 228000 to 228999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_228000_to_228999.csv,
skipping...
Processing rows 229000 to 229999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_229000_to_229999.csv,
skipping...
Processing rows 230000 to 230999
    >>>File already exists:
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skipping...
Processing rows 231000 to 231999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_231000_to_231999.csv,
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Processing rows 232000 to 232999
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Processing rows 233000 to 233999
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Processing rows 234000 to 234999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_234000_to_234999.csv,
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Processing rows 235000 to 235999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_235000_to_235999.csv,
skipping...
Processing rows 236000 to 236999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_236000_to_236999.csv,
skipping...
Processing rows 237000 to 237999
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skipping...
Processing rows 238000 to 238999
    >>>File already exists:
```

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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_238000_to_238999.csv,  
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Processing rows 240000 to 240999  
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skipping...  
Processing rows 241000 to 241999  
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skipping...  
Processing rows 242000 to 242999  
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skipping...  
Processing rows 243000 to 243999  
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skipping...  
Processing rows 244000 to 244999  
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skipping...  
Processing rows 245000 to 245999  
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Processing rows 246000 to 246999  
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skipping...  
Processing rows 247000 to 247999  
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Processing rows 248000 to 248999  
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skipping...  
Processing rows 249000 to 249999  
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skipping...  
Processing rows 250000 to 250999  
    >>>File already exists:
```

```
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skipping...  
Processing rows 252000 to 252999  
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skipping...  
Processing rows 253000 to 253999  
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skipping...  
Processing rows 254000 to 254999  
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skipping...  
Processing rows 255000 to 255999  
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skipping...  
Processing rows 257000 to 257999  
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skipping...  
Processing rows 258000 to 258999  
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Processing rows 259000 to 259999  
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Processing rows 260000 to 260999  
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skipping...  
Processing rows 261000 to 261999  
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skipping...  
Processing rows 262000 to 262999  
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```

```
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Processing rows 263000 to 263999  
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skipping...  
Processing rows 264000 to 264999  
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skipping...  
Processing rows 265000 to 265999  
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skipping...  
Processing rows 266000 to 266999  
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Processing rows 268000 to 268999  
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skipping...  
Processing rows 269000 to 269999  
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Processing rows 270000 to 270999  
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Processing rows 271000 to 271999  
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Processing rows 272000 to 272999  
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skipping...  
Processing rows 273000 to 273999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_273000_to_273999.csv,  
skipping...  
Processing rows 274000 to 274999  
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```

```
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Processing rows 275000 to 275999
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skipping...
Processing rows 276000 to 276999
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Processing rows 279000 to 279999
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Processing rows 280000 to 280999
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skipping...
Processing rows 281000 to 281999
    >>>File already exists:
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skipping...
Processing rows 282000 to 282999
    >>>File already exists:
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skipping...
Processing rows 283000 to 283999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_283000_to_283999.csv,
skipping...
Processing rows 284000 to 284999
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skipping...
Processing rows 285000 to 285999
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Processing rows 286000 to 286999
    >>>File already exists:
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```
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Processing rows 287000 to 287999  
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Processing rows 288000 to 288999  
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skipping...  
Processing rows 289000 to 289999  
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skipping...  
Processing rows 290000 to 290999  
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skipping...  
Processing rows 291000 to 291999  
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skipping...  
Processing rows 292000 to 292999  
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skipping...  
Processing rows 293000 to 293999  
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skipping...  
Processing rows 294000 to 294999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_294000_to_294999.csv,  
skipping...  
Processing rows 295000 to 295999  
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skipping...  
Processing rows 296000 to 296999  
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skipping...  
Processing rows 297000 to 297999  
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Processing rows 298000 to 298999  
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```
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skipping...
Processing rows 299000 to 299999
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skipping...
Processing rows 300000 to 300999
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skipping...
Processing rows 301000 to 301999
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skipping...
Processing rows 302000 to 302999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_302000_to_302999.csv,
skipping...
Processing rows 303000 to 303999
    >>>File already exists:
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skipping...
Processing rows 304000 to 304999
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Processing rows 305000 to 305999
    >>>File already exists:
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Processing rows 306000 to 306999
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skipping...
Processing rows 309000 to 309999
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skipping...
Processing rows 310000 to 310999
    >>>File already exists:
```



```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_310000_to_310999.csv,  
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Processing rows 311000 to 311999  
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Processing rows 312000 to 312999  
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Processing rows 319000 to 319999  
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Processing rows 320000 to 320999  
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Processing rows 322000 to 322999  
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```
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Processing rows 336000 to 336999  
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Processing rows 346000 to 346999  
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```
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Processing rows 358000 to 358999
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```

```
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Processing rows 361000 to 361999
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Processing rows 362000 to 362999
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Processing rows 363000 to 363999
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Processing rows 369000 to 369999
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skipping...
Processing rows 370000 to 370999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_370000_to_370999.csv,  
skipping...  
Processing rows 371000 to 371999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_371000_to_371999.csv,  
skipping...  
Processing rows 372000 to 372999  
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skipping...  
Processing rows 373000 to 373999  
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skipping...  
Processing rows 374000 to 374999  
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Processing rows 375000 to 375999  
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Processing rows 376000 to 376999  
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skipping...  
Processing rows 377000 to 377999  
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Processing rows 378000 to 378999  
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Processing rows 379000 to 379999  
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skipping...  
Processing rows 380000 to 380999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_380000_to_380999.csv,  
skipping...  
Processing rows 381000 to 381999  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_381000_to_381999.csv,  
skipping...  
Processing rows 382000 to 382999  
    >>>File already exists:
```

```
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Processing rows 383000 to 383999  
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skipping...  
Processing rows 384000 to 384999  
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skipping...  
Processing rows 385000 to 385999  
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Processing rows 387000 to 387999  
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Processing rows 388000 to 388999  
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Processing rows 389000 to 389999  
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Processing rows 390000 to 390999  
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Processing rows 391000 to 391999  
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skipping...  
Processing rows 392000 to 392999  
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skipping...  
Processing rows 393000 to 393999  
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skipping...  
Processing rows 394000 to 394999  
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_394000_to_394999.csv,
skipping...
Processing rows 395000 to 395999
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Processing rows 396000 to 396999
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Processing rows 398000 to 398999
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skipping...
Processing rows 399000 to 399999
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skipping...
Processing rows 400000 to 400999
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skipping...
Processing rows 401000 to 401999
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skipping...
Processing rows 402000 to 402999
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skipping...
Processing rows 403000 to 403999
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Processing rows 404000 to 404999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_404000_to_404999.csv,
skipping...
Processing rows 405000 to 405999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_405000_to_405999.csv,
skipping...
Processing rows 406000 to 406999
>>>File already exists:
```



```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_406000_to_406999.csv,
skipping...
Processing rows 407000 to 407999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_407000_to_407999.csv,
skipping...
Processing rows 408000 to 408999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_408000_to_408999.csv,
skipping...
Processing rows 409000 to 409999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_409000_to_409999.csv,
skipping...
Processing rows 410000 to 410999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_410000_to_410999.csv,
skipping...
Processing rows 411000 to 411999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_411000_to_411999.csv,
skipping...
Processing rows 412000 to 412999
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skipping...
Processing rows 413000 to 413999
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skipping...
Processing rows 414000 to 414999
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skipping...
Processing rows 415000 to 415999
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Processing rows 416000 to 416999
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skipping...
Processing rows 417000 to 417999
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skipping...
Processing rows 418000 to 418999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_418000_to_418999.csv,
skipping...
Processing rows 419000 to 419999
    >>>File already exists:
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skipping...
Processing rows 420000 to 420999
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skipping...
Processing rows 421000 to 421999
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skipping...
Processing rows 422000 to 422999
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skipping...
Processing rows 423000 to 423999
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skipping...
Processing rows 424000 to 424999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_424000_to_424999.csv,
skipping...
Processing rows 425000 to 425999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_425000_to_425999.csv,
skipping...
Processing rows 426000 to 426999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_426000_to_426999.csv,
skipping...
Processing rows 427000 to 427999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_427000_to_427999.csv,
skipping...
Processing rows 428000 to 428999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_428000_to_428999.csv,
skipping...
Processing rows 429000 to 429999
    >>>File already exists:
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skipping...
Processing rows 430000 to 430999
    >>>File already exists:
```

```
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Processing rows 431000 to 431999
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skipping...
Processing rows 432000 to 432999
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skipping...
Processing rows 433000 to 433999
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Processing rows 434000 to 434999
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Processing rows 435000 to 435999
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skipping...
Processing rows 436000 to 436999
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skipping...
Processing rows 437000 to 437999
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skipping...
Processing rows 438000 to 438999
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skipping...
Processing rows 439000 to 439999
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skipping...
Processing rows 440000 to 440999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_440000_to_440999.csv,
skipping...
Processing rows 441000 to 441999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_441000_to_441999.csv,
skipping...
Processing rows 442000 to 442999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_442000_to_442999.csv,
skipping...
Processing rows 443000 to 443999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_443000_to_443999.csv,
skipping...
Processing rows 444000 to 444999
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skipping...
Processing rows 445000 to 445999
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Processing rows 446000 to 446999
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Processing rows 448000 to 448999
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Processing rows 449000 to 449999
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skipping...
Processing rows 450000 to 450999
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Processing rows 452000 to 452999
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Processing rows 453000 to 453999
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```

```
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Processing rows 455000 to 455999  
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Processing rows 461000 to 461999  
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```

```
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Processing rows 472000 to 472999
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Processing rows 474000 to 474999
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Processing rows 478000 to 478999
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```

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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_478000_to_478999.csv,
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Processing rows 481000 to 481999
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Processing rows 482000 to 482999
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Processing rows 489000 to 489999
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Processing rows 490000 to 490999
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```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_490000_to_490999.csv,
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Processing rows 491000 to 491999
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skipping...
Processing rows 492000 to 492999
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Processing rows 493000 to 493999
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Processing rows 494000 to 494999
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Processing rows 495000 to 495999
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Processing rows 496000 to 496999
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Processing rows 497000 to 497999
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Processing rows 498000 to 498999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_498000_to_498999.csv,
skipping...
Processing rows 499000 to 499999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_499000_to_499999.csv,
skipping...
Processing rows 500000 to 500999
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skipping...
Processing rows 501000 to 501999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_501000_to_501999.csv,
skipping...
Processing rows 502000 to 502999
    >>>File already exists:
```



```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_502000_to_502999.csv,
skipping...
Processing rows 503000 to 503999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_503000_to_503999.csv,
skipping...
Processing rows 504000 to 504999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_504000_to_504999.csv,
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Processing rows 505000 to 505999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_505000_to_505999.csv,
skipping...
Processing rows 506000 to 506999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_506000_to_506999.csv,
skipping...
Processing rows 507000 to 507999
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skipping...
Processing rows 508000 to 508999
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skipping...
Processing rows 509000 to 509999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_509000_to_509999.csv,
skipping...
Processing rows 510000 to 510999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_510000_to_510999.csv,
skipping...
Processing rows 511000 to 511999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_511000_to_511999.csv,
skipping...
Processing rows 512000 to 512999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_512000_to_512999.csv,
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Processing rows 513000 to 513999
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skipping...
Processing rows 514000 to 514999
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```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_514000_to_514999.csv,  
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_655000_to_655999.csv,  
skipping...  
Processing rows 656000 to 656999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_656000_to_656999.csv,  
skipping...  
Processing rows 657000 to 657999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_657000_to_657999.csv,  
skipping...  
Processing rows 658000 to 658999  
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_658000_to_658999.csv,
skipping...
Processing rows 659000 to 659999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_659000_to_659999.csv,
skipping...
Processing rows 660000 to 660999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_660000_to_660999.csv,
skipping...
Processing rows 661000 to 661999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_661000_to_661999.csv,
skipping...
Processing rows 662000 to 662999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_662000_to_662999.csv,
skipping...
Processing rows 663000 to 663999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_663000_to_663999.csv,
skipping...
Processing rows 664000 to 664999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_664000_to_664999.csv,
skipping...
Processing rows 665000 to 665999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_665000_to_665999.csv,
skipping...
Processing rows 666000 to 666999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_666000_to_666999.csv,
skipping...
Processing rows 667000 to 667999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_667000_to_667999.csv,
skipping...
Processing rows 668000 to 668999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_668000_to_668999.csv,
skipping...
Processing rows 669000 to 669999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_669000_to_669999.csv,
skipping...
Processing rows 670000 to 670999
>>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_670000_to_670999.csv,  
skipping...  
Processing rows 671000 to 671999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_671000_to_671999.csv,  
skipping...  
Processing rows 672000 to 672999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_672000_to_672999.csv,  
skipping...  
Processing rows 673000 to 673999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_673000_to_673999.csv,  
skipping...  
Processing rows 674000 to 674999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_674000_to_674999.csv,  
skipping...  
Processing rows 675000 to 675999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_675000_to_675999.csv,  
skipping...  
Processing rows 676000 to 676999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_676000_to_676999.csv,  
skipping...  
Processing rows 677000 to 677999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_677000_to_677999.csv,  
skipping...  
Processing rows 678000 to 678999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_678000_to_678999.csv,  
skipping...  
Processing rows 679000 to 679999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_679000_to_679999.csv,  
skipping...  
Processing rows 680000 to 680999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_680000_to_680999.csv,  
skipping...  
Processing rows 681000 to 681999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_681000_to_681999.csv,  
skipping...  
Processing rows 682000 to 682999  
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_682000_to_682999.csv,
skipping...
Processing rows 683000 to 683999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_683000_to_683999.csv,
skipping...
Processing rows 684000 to 684999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_684000_to_684999.csv,
skipping...
Processing rows 685000 to 685999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_685000_to_685999.csv,
skipping...
Processing rows 686000 to 686999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_686000_to_686999.csv,
skipping...
Processing rows 687000 to 687999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_687000_to_687999.csv,
skipping...
Processing rows 688000 to 688999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_688000_to_688999.csv,
skipping...
Processing rows 689000 to 689999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_689000_to_689999.csv,
skipping...
Processing rows 690000 to 690999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_690000_to_690999.csv,
skipping...
Processing rows 691000 to 691999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_691000_to_691999.csv,
skipping...
Processing rows 692000 to 692999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_692000_to_692999.csv,
skipping...
Processing rows 693000 to 693999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_693000_to_693999.csv,
skipping...
Processing rows 694000 to 694999
    >>>File already exists:
```



```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_694000_to_694999.csv,
skipping...
Processing rows 695000 to 695999
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skipping...
Processing rows 696000 to 696999
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skipping...
Processing rows 697000 to 697999
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skipping...
Processing rows 698000 to 698999
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skipping...
Processing rows 699000 to 699999
>>>File already exists:
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skipping...
Processing rows 700000 to 700999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_700000_to_700999.csv,
skipping...
Processing rows 701000 to 701999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_701000_to_701999.csv,
skipping...
Processing rows 702000 to 702999
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skipping...
Processing rows 703000 to 703999
>>>File already exists:
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skipping...
Processing rows 704000 to 704999
>>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_704000_to_704999.csv,
skipping...
Processing rows 705000 to 705999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_705000_to_705999.csv,
skipping...
Processing rows 706000 to 706999
>>>File already exists:
```

```

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_706000_to_706999.csv,
skipping...
Processing rows 707000 to 707999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_707000_to_707999.csv,
skipping...
Processing rows 708000 to 708999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_708000_to_708999.csv,
skipping...
Processing rows 709000 to 709999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_709000_to_709999.csv,
skipping...
Processing rows 710000 to 710999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_710000_to_710999.csv,
skipping...
Processing rows 711000 to 711999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_711000_to_711999.csv,
skipping...
Processing rows 712000 to 712999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_712000_to_712999.csv,
skipping...
Processing rows 713000 to 713999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_713000_to_713999.csv,
skipping...
Processing rows 714000 to 714999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_714000_to_714999.csv,
skipping...
Processing rows 715000 to 715999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_715000_to_715999.csv,
skipping...
Processing rows 716000 to 716999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_716000_to_716999.csv,
skipping...
Processing rows 717000 to 717999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_717000_to_717999.csv,
skipping...
Processing rows 718000 to 718999
    >>>File already exists:

```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_718000_to_718999.csv,  
skipping...  
Processing rows 719000 to 719999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_719000_to_719999.csv,  
skipping...  
Processing rows 720000 to 720999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_720000_to_720999.csv,  
skipping...  
Processing rows 721000 to 721999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_721000_to_721999.csv,  
skipping...  
Processing rows 722000 to 722999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_722000_to_722999.csv,  
skipping...  
Processing rows 723000 to 723999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_723000_to_723999.csv,  
skipping...  
Processing rows 724000 to 724999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_724000_to_724999.csv,  
skipping...  
Processing rows 725000 to 725999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_725000_to_725999.csv,  
skipping...  
Processing rows 726000 to 726999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_726000_to_726999.csv,  
skipping...  
Processing rows 727000 to 727999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_727000_to_727999.csv,  
skipping...  
Processing rows 728000 to 728999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_728000_to_728999.csv,  
skipping...  
Processing rows 729000 to 729999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_729000_to_729999.csv,  
skipping...  
Processing rows 730000 to 730999  
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_730000_to_730999.csv,
skipping...
Processing rows 731000 to 731999
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skipping...
Processing rows 732000 to 732999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_732000_to_732999.csv,
skipping...
Processing rows 733000 to 733999
    >>>File already exists:
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skipping...
Processing rows 734000 to 734999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_734000_to_734999.csv,
skipping...
Processing rows 735000 to 735999
    >>>File already exists:
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skipping...
Processing rows 736000 to 736999
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skipping...
Processing rows 737000 to 737999
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skipping...
Processing rows 738000 to 738999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_738000_to_738999.csv,
skipping...
Processing rows 739000 to 739999
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skipping...
Processing rows 740000 to 740999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_740000_to_740999.csv,
skipping...
Processing rows 741000 to 741999
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skipping...
Processing rows 742000 to 742999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_742000_to_742999.csv,
skipping...
Processing rows 743000 to 743999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_743000_to_743999.csv,
skipping...
Processing rows 744000 to 744999
    >>>File already exists:
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skipping...
Processing rows 745000 to 745999
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skipping...
Processing rows 746000 to 746999
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Processing rows 747000 to 747999
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Processing rows 748000 to 748999
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skipping...
Processing rows 749000 to 749999
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skipping...
Processing rows 750000 to 750999
    >>>File already exists:
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skipping...
Processing rows 751000 to 751999
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skipping...
Processing rows 752000 to 752999
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skipping...
Processing rows 753000 to 753999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_753000_to_753999.csv,
skipping...
Processing rows 754000 to 754999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_754000_to_754999.csv,
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Processing rows 755000 to 755999
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skipping...
Processing rows 756000 to 756999
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skipping...
Processing rows 757000 to 757999
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skipping...
Processing rows 758000 to 758999
    >>>File already exists:
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skipping...
Processing rows 759000 to 759999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_759000_to_759999.csv,
skipping...
Processing rows 760000 to 760999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_760000_to_760999.csv,
skipping...
Processing rows 761000 to 761999
    >>>File already exists:
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skipping...
Processing rows 762000 to 762999
    >>>File already exists:
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Processing rows 763000 to 763999
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skipping...
Processing rows 764000 to 764999
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Processing rows 765000 to 765999
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skipping...
Processing rows 766000 to 766999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_766000_to_766999.csv,
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Processing rows 767000 to 767999
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skipping...
Processing rows 768000 to 768999
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skipping...
Processing rows 769000 to 769999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_769000_to_769999.csv,
skipping...
Processing rows 770000 to 770999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_770000_to_770999.csv,
skipping...
Processing rows 771000 to 771999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_771000_to_771999.csv,
skipping...
Processing rows 772000 to 772999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_772000_to_772999.csv,
skipping...
Processing rows 773000 to 773999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_773000_to_773999.csv,
skipping...
Processing rows 774000 to 774999
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Processing rows 775000 to 775999
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Processing rows 776000 to 776999
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skipping...
Processing rows 777000 to 777999
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skipping...
Processing rows 778000 to 778999
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```

```
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skipping...
Processing rows 780000 to 780999
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Processing rows 781000 to 781999
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Processing rows 782000 to 782999
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skipping...
Processing rows 783000 to 783999
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Processing rows 784000 to 784999
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Processing rows 788000 to 788999
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skipping...
Processing rows 789000 to 789999
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skipping...
Processing rows 790000 to 790999
>>>File already exists:
```



```
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Processing rows 791000 to 791999
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Processing rows 792000 to 792999
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skipping...
Processing rows 793000 to 793999
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Processing rows 794000 to 794999
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skipping...
Processing rows 795000 to 795999
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Processing rows 796000 to 796999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_796000_to_796999.csv,
skipping...
Processing rows 797000 to 797999
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skipping...
Processing rows 798000 to 798999
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skipping...
Processing rows 799000 to 799999
    >>>File already exists:
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skipping...
Processing rows 800000 to 800999
    >>>File already exists:
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skipping...
Processing rows 801000 to 801999
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skipping...
Processing rows 802000 to 802999
    >>>File already exists:
```

```

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Processing rows 803000 to 803999
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skipping...
Processing rows 804000 to 804999
    >>>File already exists:
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skipping...
Processing rows 805000 to 805999
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Processing rows 806000 to 806999
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Processing rows 807000 to 807999
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skipping...
Processing rows 808000 to 808999
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Processing rows 809000 to 809999
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skipping...
Processing rows 810000 to 810999
    >>>File already exists:
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skipping...
Processing rows 811000 to 811999
    >>>File already exists:
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skipping...
Processing rows 812000 to 812999
    >>>File already exists:
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skipping...
Processing rows 813000 to 813999
    >>>File already exists:
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skipping...
Processing rows 814000 to 814999
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```
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Processing rows 815000 to 815999
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skipping...
Processing rows 816000 to 816999
    >>>File already exists:
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skipping...
Processing rows 817000 to 817999
    >>>File already exists:
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skipping...
Processing rows 818000 to 818999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_818000_to_818999.csv,
skipping...
Processing rows 819000 to 819999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_819000_to_819999.csv,
skipping...
Processing rows 820000 to 820999
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skipping...
Processing rows 821000 to 821999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_821000_to_821999.csv,
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Processing rows 822000 to 822999
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Processing rows 823000 to 823999
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skipping...
Processing rows 824000 to 824999
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skipping...
Processing rows 825000 to 825999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_825000_to_825999.csv,
skipping...
Processing rows 826000 to 826999
    >>>File already exists:
```

```
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_827000_to_827999.csv,
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Processing rows 828000 to 828999
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skipping...
Processing rows 829000 to 829999
    >>>File already exists:
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skipping...
Processing rows 830000 to 830999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_830000_to_830999.csv,
skipping...
Processing rows 831000 to 831999
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skipping...
Processing rows 832000 to 832999
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skipping...
Processing rows 833000 to 833999
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Processing rows 834000 to 834999
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skipping...
Processing rows 835000 to 835999
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Processing rows 836000 to 836999
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skipping...
Processing rows 837000 to 837999
    >>>File already exists:
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skipping...
Processing rows 838000 to 838999
    >>>File already exists:
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```
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skipping...
Processing rows 840000 to 840999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_840000_to_840999.csv,
skipping...
Processing rows 841000 to 841999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_841000_to_841999.csv,
skipping...
Processing rows 842000 to 842999
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skipping...
Processing rows 843000 to 843999
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Processing rows 844000 to 844999
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skipping...
Processing rows 845000 to 845999
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skipping...
Processing rows 846000 to 846999
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Processing rows 847000 to 847999
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skipping...
Processing rows 848000 to 848999
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skipping...
Processing rows 849000 to 849999
    >>>File already exists:
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skipping...
Processing rows 850000 to 850999
    >>>File already exists:
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skipping...
Processing rows 852000 to 852999
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skipping...
Processing rows 853000 to 853999
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skipping...
Processing rows 854000 to 854999
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Processing rows 855000 to 855999
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Processing rows 856000 to 856999
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Processing rows 857000 to 857999
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Processing rows 858000 to 858999
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Processing rows 859000 to 859999
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skipping...
Processing rows 860000 to 860999
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Processing rows 861000 to 861999
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Processing rows 862000 to 862999
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```

```
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Processing rows 863000 to 863999
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Processing rows 864000 to 864999
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Processing rows 865000 to 865999
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Processing rows 866000 to 866999
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Processing rows 867000 to 867999
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Processing rows 869000 to 869999
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Processing rows 870000 to 870999
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Processing rows 871000 to 871999
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Processing rows 872000 to 872999
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Processing rows 873000 to 873999
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Processing rows 874000 to 874999
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```
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Processing rows 876000 to 876999
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Processing rows 879000 to 879999
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Processing rows 880000 to 880999
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Processing rows 881000 to 881999
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Processing rows 882000 to 882999
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Processing rows 883000 to 883999
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Processing rows 884000 to 884999
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Processing rows 885000 to 885999
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Processing rows 886000 to 886999
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```



```
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```

```
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Processing rows 902000 to 902999
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Processing rows 907000 to 907999
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Processing rows 908000 to 908999
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Processing rows 909000 to 909999
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Processing rows 910000 to 910999
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Processing rows 911000 to 911999  
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skipping...  
Processing rows 912000 to 912999  
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Processing rows 913000 to 913999  
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Processing rows 915000 to 915999  
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Processing rows 916000 to 916999  
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Processing rows 917000 to 917999  
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Processing rows 919000 to 919999  
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skipping...  
Processing rows 920000 to 920999  
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Processing rows 921000 to 921999  
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Processing rows 922000 to 922999  
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```

```
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Processing rows 925000 to 925999
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Processing rows 927000 to 927999
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Processing rows 928000 to 928999
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Processing rows 929000 to 929999
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Processing rows 930000 to 930999
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Processing rows 931000 to 931999
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Processing rows 932000 to 932999
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Processing rows 934000 to 934999
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```

```
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Processing rows 936000 to 936999
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/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_936000_to_936999.csv,
skipping...
Processing rows 937000 to 937999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_937000_to_937999.csv,
skipping...
Processing rows 938000 to 938999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_938000_to_938999.csv,
skipping...
Processing rows 939000 to 939999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_939000_to_939999.csv,
skipping...
Processing rows 940000 to 940999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_940000_to_940999.csv,
skipping...
Processing rows 941000 to 941999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_941000_to_941999.csv,
skipping...
Processing rows 942000 to 942999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_942000_to_942999.csv,
skipping...
Processing rows 943000 to 943999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_943000_to_943999.csv,
skipping...
Processing rows 944000 to 944999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_944000_to_944999.csv,
skipping...
Processing rows 945000 to 945999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_945000_to_945999.csv,
skipping...
Processing rows 946000 to 946999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_946000_to_946999.csv,
skipping...
Processing rows 947000 to 947999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_947000_to_947999.csv,
skipping...
Processing rows 948000 to 948999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_948000_to_948999.csv,
skipping...
Processing rows 949000 to 949999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_949000_to_949999.csv,
skipping...
Processing rows 950000 to 950999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_950000_to_950999.csv,
skipping...
Processing rows 951000 to 951999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_951000_to_951999.csv,
skipping...
Processing rows 952000 to 952999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_952000_to_952999.csv,
skipping...
Processing rows 953000 to 953999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_953000_to_953999.csv,
skipping...
Processing rows 954000 to 954999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_954000_to_954999.csv,
skipping...
Processing rows 955000 to 955999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_955000_to_955999.csv,
skipping...
Processing rows 956000 to 956999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_956000_to_956999.csv,
skipping...
Processing rows 957000 to 957999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_957000_to_957999.csv,
skipping...
Processing rows 958000 to 958999
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_958000_to_958999.csv,  
skipping...  
Processing rows 959000 to 959999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_959000_to_959999.csv,  
skipping...  
Processing rows 960000 to 960999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_960000_to_960999.csv,  
skipping...  
Processing rows 961000 to 961999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_961000_to_961999.csv,  
skipping...  
Processing rows 962000 to 962999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_962000_to_962999.csv,  
skipping...  
Processing rows 963000 to 963999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_963000_to_963999.csv,  
skipping...  
Processing rows 964000 to 964999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_964000_to_964999.csv,  
skipping...  
Processing rows 965000 to 965999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_965000_to_965999.csv,  
skipping...  
Processing rows 966000 to 966999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_966000_to_966999.csv,  
skipping...  
Processing rows 967000 to 967999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_967000_to_967999.csv,  
skipping...  
Processing rows 968000 to 968999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_968000_to_968999.csv,  
skipping...  
Processing rows 969000 to 969999  
    >>>File already exists:  
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_969000_to_969999.csv,  
skipping...  
Processing rows 970000 to 970999  
    >>>File already exists:
```

```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_970000_to_970999.csv,
skipping...
Processing rows 971000 to 971999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_971000_to_971999.csv,
skipping...
Processing rows 972000 to 972999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_972000_to_972999.csv,
skipping...
Processing rows 973000 to 973999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_973000_to_973999.csv,
skipping...
Processing rows 974000 to 974999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_974000_to_974999.csv,
skipping...
Processing rows 975000 to 975999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_975000_to_975999.csv,
skipping...
Processing rows 976000 to 976999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_976000_to_976999.csv,
skipping...
Processing rows 977000 to 977999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_977000_to_977999.csv,
skipping...
Processing rows 978000 to 978999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_978000_to_978999.csv,
skipping...
Processing rows 979000 to 979999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_979000_to_979999.csv,
skipping...
Processing rows 980000 to 980999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_980000_to_980999.csv,
skipping...
Processing rows 981000 to 981999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_981000_to_981999.csv,
skipping...
Processing rows 982000 to 982999
    >>>File already exists:
```



```
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_982000_to_982999.csv,
skipping...
Processing rows 983000 to 983999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_983000_to_983999.csv,
skipping...
Processing rows 984000 to 984999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_984000_to_984999.csv,
skipping...
Processing rows 985000 to 985999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_985000_to_985999.csv,
skipping...
Processing rows 986000 to 986999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_986000_to_986999.csv,
skipping...
Processing rows 987000 to 987999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_987000_to_987999.csv,
skipping...
Processing rows 988000 to 988999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_988000_to_988999.csv,
skipping...
Processing rows 989000 to 989999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_989000_to_989999.csv,
skipping...
Processing rows 990000 to 990999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_990000_to_990999.csv,
skipping...
Processing rows 991000 to 991999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_991000_to_991999.csv,
skipping...
Processing rows 992000 to 992999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_992000_to_992999.csv,
skipping...
Processing rows 993000 to 993999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_993000_to_993999.csv,
skipping...
Processing rows 994000 to 994999
    >>>File already exists:
```

```

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_994000_to_994999.csv,
skipping...
Processing rows 995000 to 995999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_995000_to_995999.csv,
skipping...
Processing rows 996000 to 996999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_996000_to_996999.csv,
skipping...
Processing rows 997000 to 997999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_997000_to_997999.csv,
skipping...
Processing rows 998000 to 998999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_998000_to_998999.csv,
skipping...
Processing rows 999000 to 999999
    >>>File already exists:
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_999000_to_999999.csv,
skipping...
Processing rows 1000000 to 1000999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1000000_to_1000999.csv, skipping...
Processing rows 1001000 to 1001999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1001000_to_1001999.csv, skipping...
Processing rows 1002000 to 1002999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1002000_to_1002999.csv, skipping...
Processing rows 1003000 to 1003999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1003000_to_1003999.csv, skipping...
Processing rows 1004000 to 1004999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1004000_to_1004999.csv, skipping...
Processing rows 1005000 to 1005999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1005000_to_1005999.csv, skipping...
Processing rows 1006000 to 1006999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1006000_to_1006999.csv, skipping...
Processing rows 1007000 to 1007999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1007000_to_1007999.csv, skipping...
Processing rows 1008000 to 1008999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a

```

```

nnotation_1008000_to_1008999.csv, skipping...
Processing rows 1009000 to 1009999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1009000_to_1009999.csv, skipping...
Processing rows 1010000 to 1010999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1010000_to_1010999.csv, skipping...
Processing rows 1011000 to 1011999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1011000_to_1011999.csv, skipping...
Processing rows 1012000 to 1012999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1012000_to_1012999.csv, skipping...
Processing rows 1013000 to 1013999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1013000_to_1013999.csv, skipping...
Processing rows 1014000 to 1014999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1014000_to_1014999.csv, skipping...
Processing rows 1015000 to 1015999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1015000_to_1015999.csv, skipping...
Processing rows 1016000 to 1016999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1016000_to_1016999.csv, skipping...
Processing rows 1017000 to 1017999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1017000_to_1017999.csv, skipping...
Processing rows 1018000 to 1018999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1018000_to_1018999.csv, skipping...
Processing rows 1019000 to 1019999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1019000_to_1019999.csv, skipping...
Processing rows 1020000 to 1020999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1020000_to_1020999.csv, skipping...
Processing rows 1021000 to 1021999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1021000_to_1021999.csv, skipping...
Processing rows 1022000 to 1022999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1022000_to_1022999.csv, skipping...
Processing rows 1023000 to 1023999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1023000_to_1023999.csv, skipping...
Processing rows 1024000 to 1024999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a

```

nnotation_1024000_to_1024999.csv, skipping...
Processing rows 1025000 to 1025999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1025000_to_1025999.csv, skipping...
Processing rows 1026000 to 1026999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1026000_to_1026999.csv, skipping...
Processing rows 1027000 to 1027999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1027000_to_1027999.csv, skipping...
Processing rows 1028000 to 1028999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1028000_to_1028999.csv, skipping...
Processing rows 1029000 to 1029999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1029000_to_1029999.csv, skipping...
Processing rows 1030000 to 1030999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1030000_to_1030999.csv, skipping...
Processing rows 1031000 to 1031999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1031000_to_1031999.csv, skipping...
Processing rows 1032000 to 1032999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1032000_to_1032999.csv, skipping...
Processing rows 1033000 to 1033999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1033000_to_1033999.csv, skipping...
Processing rows 1034000 to 1034999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1034000_to_1034999.csv, skipping...
Processing rows 1035000 to 1035999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1035000_to_1035999.csv, skipping...
Processing rows 1036000 to 1036999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1036000_to_1036999.csv, skipping...
Processing rows 1037000 to 1037999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1037000_to_1037999.csv, skipping...
Processing rows 1038000 to 1038999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1038000_to_1038999.csv, skipping...
Processing rows 1039000 to 1039999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1039000_to_1039999.csv, skipping...
Processing rows 1040000 to 1040999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a

nnotation_1040000_to_1040999.csv, skipping...
Processing rows 1041000 to 1041999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1041000_to_1041999.csv, skipping...
Processing rows 1042000 to 1042999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1042000_to_1042999.csv, skipping...
Processing rows 1043000 to 1043999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1043000_to_1043999.csv, skipping...
Processing rows 1044000 to 1044999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1044000_to_1044999.csv, skipping...
Processing rows 1045000 to 1045999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1045000_to_1045999.csv, skipping...
Processing rows 1046000 to 1046999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1046000_to_1046999.csv, skipping...
Processing rows 1047000 to 1047999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1047000_to_1047999.csv, skipping...
Processing rows 1048000 to 1048999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1048000_to_1048999.csv, skipping...
Processing rows 1049000 to 1049999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1049000_to_1049999.csv, skipping...
Processing rows 1050000 to 1050999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1050000_to_1050999.csv, skipping...
Processing rows 1051000 to 1051999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1051000_to_1051999.csv, skipping...
Processing rows 1052000 to 1052999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1052000_to_1052999.csv, skipping...
Processing rows 1053000 to 1053999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1053000_to_1053999.csv, skipping...
Processing rows 1054000 to 1054999
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nnotation_1054000_to_1054999.csv, skipping...
Processing rows 1055000 to 1055999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1055000_to_1055999.csv, skipping...
Processing rows 1056000 to 1056999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a

nnotation_1056000_to_1056999.csv, skipping...
Processing rows 1057000 to 1057999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1057000_to_1057999.csv, skipping...
Processing rows 1058000 to 1058999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1058000_to_1058999.csv, skipping...
Processing rows 1059000 to 1059999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1059000_to_1059999.csv, skipping...
Processing rows 1060000 to 1060999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1060000_to_1060999.csv, skipping...
Processing rows 1061000 to 1061999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1061000_to_1061999.csv, skipping...
Processing rows 1062000 to 1062999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1062000_to_1062999.csv, skipping...
Processing rows 1063000 to 1063999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1063000_to_1063999.csv, skipping...
Processing rows 1064000 to 1064999
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nnotation_1064000_to_1064999.csv, skipping...
Processing rows 1065000 to 1065999
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nnotation_1065000_to_1065999.csv, skipping...
Processing rows 1066000 to 1066999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1066000_to_1066999.csv, skipping...
Processing rows 1067000 to 1067999
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Processing rows 1068000 to 1068999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1068000_to_1068999.csv, skipping...
Processing rows 1069000 to 1069999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1069000_to_1069999.csv, skipping...
Processing rows 1070000 to 1070999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1070000_to_1070999.csv, skipping...
Processing rows 1071000 to 1071999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1071000_to_1071999.csv, skipping...
Processing rows 1072000 to 1072999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a

```

nnotation_1072000_to_1072999.csv, skipping...
Processing rows 1073000 to 1073999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1073000_to_1073999.csv, skipping...
Processing rows 1074000 to 1074999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1074000_to_1074999.csv, skipping...
Processing rows 1075000 to 1075999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1075000_to_1075999.csv, skipping...
Processing rows 1076000 to 1076999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1076000_to_1076999.csv, skipping...
Processing rows 1077000 to 1077999
    >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a
nnotation_1077000_to_1077999.csv, skipping...
Processing rows 1078000 to 1078999
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Processing rows 1088000 to 1088999
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Processing rows 1230000 to 1230999
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Processing rows 1231000 to 1231999
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Processing rows 1288000 to 1288999
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Processing rows 1289000 to 1289999
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Processing rows 1290000 to 1290999
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Processing rows 1291000 to 1291999
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Processing rows 1292000 to 1292999
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Processing rows 1293000 to 1293999
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Processing rows 1302000 to 1302999
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Processing rows 1303000 to 1303999
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Processing rows 1304000 to 1304999
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Processing rows 1306000 to 1306999
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Processing rows 1308000 to 1308999
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Processing rows 1309000 to 1309999
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Processing rows 1310000 to 1310999
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Processing rows 1311000 to 1311999
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Processing rows 1312000 to 1312999
 >>>File already exists: /content/drive/MyDrive/NLP_Proj/Output/method2_a

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nnotation_1312000_to_1312999.csv, skipping...
Processing rows 1313000 to 1313999
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Processing rows 1314000 to 1314999
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Processing rows 1315000 to 1315999
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Processing rows 1316000 to 1316999
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Processing rows 1317000 to 1317999

100%|      | 1000/1000 [02:57<00:00,  5.63it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1317000_to_1317999.csv
Processing rows 1318000 to 1318999

100%|      | 1000/1000 [02:13<00:00,  7.51it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1318000_to_1318999.csv
Processing rows 1319000 to 1319999

100%|      | 1000/1000 [02:10<00:00,  7.66it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1319000_to_1319999.csv
Processing rows 1320000 to 1320999

100%|      | 1000/1000 [02:11<00:00,  7.60it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1320000_to_1320999.csv
Processing rows 1321000 to 1321999

100%|      | 1000/1000 [02:10<00:00,  7.68it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1321000_to_1321999.csv
Processing rows 1322000 to 1322999

100%|      | 1000/1000 [02:09<00:00,  7.74it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1322000_to_1322999.csv
Processing rows 1323000 to 1323999

100%|      | 1000/1000 [02:08<00:00,  7.80it/s]

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Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1323000_to_1323999.csv
Processing rows 1324000 to 1324999
100%| | 1000/1000 [02:07<00:00, 7.83it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1324000_to_1324999.csv
Processing rows 1325000 to 1325999
100%| | 1000/1000 [02:08<00:00, 7.77it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1325000_to_1325999.csv
Processing rows 1326000 to 1326999
100%| | 1000/1000 [02:06<00:00, 7.88it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1326000_to_1326999.csv
Processing rows 1327000 to 1327999
100%| | 1000/1000 [02:07<00:00, 7.85it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1327000_to_1327999.csv
Processing rows 1328000 to 1328999
100%| | 1000/1000 [02:08<00:00, 7.77it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1328000_to_1328999.csv
Processing rows 1329000 to 1329999
100%| | 1000/1000 [02:09<00:00, 7.75it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1329000_to_1329999.csv
Processing rows 1330000 to 1330999
100%| | 1000/1000 [02:08<00:00, 7.79it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1330000_to_1330999.csv
Processing rows 1331000 to 1331999
100%| | 1000/1000 [02:13<00:00, 7.52it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1331000_to_1331999.csv
Processing rows 1332000 to 1332999
100%| | 1000/1000 [02:11<00:00, 7.62it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1332000_to_1332999.csv
Processing rows 1333000 to 1333999

100%| | 1000/1000 [02:10<00:00, 7.64it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1333000_to_1333999.csv
Processing rows 1334000 to 1334999
100%| | 1000/1000 [02:11<00:00, 7.61it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1334000_to_1334999.csv
Processing rows 1335000 to 1335999
100%| | 1000/1000 [02:08<00:00, 7.76it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1335000_to_1335999.csv
Processing rows 1336000 to 1336999
100%| | 1000/1000 [02:10<00:00, 7.64it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1336000_to_1336999.csv
Processing rows 1337000 to 1337999
100%| | 1000/1000 [02:07<00:00, 7.81it/s]
Saved to
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Processing rows 1338000 to 1338999
100%| | 1000/1000 [02:06<00:00, 7.93it/s]
Saved to
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Processing rows 1339000 to 1339999
100%| | 1000/1000 [02:08<00:00, 7.81it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1339000_to_1339999.csv
Processing rows 1340000 to 1340999
100%| | 1000/1000 [02:08<00:00, 7.75it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1340000_to_1340999.csv
Processing rows 1341000 to 1341999
100%| | 1000/1000 [02:08<00:00, 7.78it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1341000_to_1341999.csv
Processing rows 1342000 to 1342999
100%| | 1000/1000 [02:10<00:00, 7.66it/s]

Saved to
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 Processing rows 1343000 to 1343999
 100%| | 1000/1000 [02:08<00:00, 7.78it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1343000_to_1343999.csv
 Processing rows 1344000 to 1344999
 100%| | 1000/1000 [02:11<00:00, 7.59it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1344000_to_1344999.csv
 Processing rows 1345000 to 1345999
 100%| | 1000/1000 [02:10<00:00, 7.68it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1345000_to_1345999.csv
 Processing rows 1346000 to 1346999
 100%| | 1000/1000 [02:09<00:00, 7.72it/s]

Saved to
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 Processing rows 1347000 to 1347999
 100%| | 1000/1000 [02:08<00:00, 7.78it/s]

Saved to
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 Processing rows 1348000 to 1348999
 100%| | 1000/1000 [02:10<00:00, 7.67it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1348000_to_1348999.csv
 Processing rows 1349000 to 1349999
 100%| | 1000/1000 [02:08<00:00, 7.76it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1349000_to_1349999.csv
 Processing rows 1350000 to 1350999
 100%| | 1000/1000 [02:11<00:00, 7.61it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1350000_to_1350999.csv
 Processing rows 1351000 to 1351999
 100%| | 1000/1000 [02:04<00:00, 8.02it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1351000_to_1351999.csv
 Processing rows 1352000 to 1352999

100%| | 1000/1000 [02:07<00:00, 7.84it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1352000_to_1352999.csv
Processing rows 1353000 to 1353999

100%| | 1000/1000 [02:08<00:00, 7.77it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1353000_to_1353999.csv
Processing rows 1354000 to 1354999

100%| | 1000/1000 [02:08<00:00, 7.79it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1354000_to_1354999.csv
Processing rows 1355000 to 1355999

100%| | 1000/1000 [02:07<00:00, 7.84it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1355000_to_1355999.csv
Processing rows 1356000 to 1356999

100%| | 1000/1000 [02:08<00:00, 7.77it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1356000_to_1356999.csv
Processing rows 1357000 to 1357999

100%| | 1000/1000 [02:08<00:00, 7.80it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1357000_to_1357999.csv
Processing rows 1358000 to 1358999

100%| | 1000/1000 [02:15<00:00, 7.38it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1358000_to_1358999.csv
Processing rows 1359000 to 1359999

100%| | 1000/1000 [02:07<00:00, 7.82it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1359000_to_1359999.csv
Processing rows 1360000 to 1360999

100%| | 1000/1000 [02:11<00:00, 7.63it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1360000_to_1360999.csv
Processing rows 1361000 to 1361999

100%| | 1000/1000 [02:10<00:00, 7.68it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1361000_to_1361999.csv
Processing rows 1362000 to 1362999
100%| | 1000/1000 [02:11<00:00, 7.58it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1362000_to_1362999.csv
Processing rows 1363000 to 1363999
100%| | 1000/1000 [02:13<00:00, 7.48it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1363000_to_1363999.csv
Processing rows 1364000 to 1364999
100%| | 1000/1000 [02:10<00:00, 7.66it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1364000_to_1364999.csv
Processing rows 1365000 to 1365999
100%| | 1000/1000 [02:08<00:00, 7.75it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1365000_to_1365999.csv
Processing rows 1366000 to 1366999
100%| | 1000/1000 [02:10<00:00, 7.65it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1366000_to_1366999.csv
Processing rows 1367000 to 1367999
100%| | 1000/1000 [02:12<00:00, 7.53it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1367000_to_1367999.csv
Processing rows 1368000 to 1368999
100%| | 1000/1000 [02:12<00:00, 7.52it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1368000_to_1368999.csv
Processing rows 1369000 to 1369999
100%| | 1000/1000 [02:13<00:00, 7.50it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1369000_to_1369999.csv
Processing rows 1370000 to 1370999
100%| | 1000/1000 [02:11<00:00, 7.62it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1370000_to_1370999.csv
Processing rows 1371000 to 1371999

100%| | 1000/1000 [02:10<00:00, 7.68it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1371000_to_1371999.csv
 Processing rows 1372000 to 1372999

100%| | 1000/1000 [02:11<00:00, 7.61it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1372000_to_1372999.csv
 Processing rows 1373000 to 1373999

100%| | 1000/1000 [02:10<00:00, 7.64it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1373000_to_1373999.csv
 Processing rows 1374000 to 1374999

100%| | 1000/1000 [02:08<00:00, 7.78it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1374000_to_1374999.csv
 Processing rows 1375000 to 1375999

100%| | 1000/1000 [02:09<00:00, 7.71it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1375000_to_1375999.csv
 Processing rows 1376000 to 1376999

100%| | 1000/1000 [02:11<00:00, 7.62it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1376000_to_1376999.csv
 Processing rows 1377000 to 1377999

100%| | 1000/1000 [02:18<00:00, 7.24it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1377000_to_1377999.csv
 Processing rows 1378000 to 1378999

100%| | 1000/1000 [02:13<00:00, 7.47it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1378000_to_1378999.csv
 Processing rows 1379000 to 1379999

100%| | 1000/1000 [02:15<00:00, 7.38it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1379000_to_1379999.csv
 Processing rows 1380000 to 1380999

100%| | 1000/1000 [02:14<00:00, 7.45it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1380000_to_1380999.csv
Processing rows 1381000 to 1381999
100%| | 1000/1000 [02:14<00:00, 7.43it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1381000_to_1381999.csv
Processing rows 1382000 to 1382999
100%| | 1000/1000 [02:15<00:00, 7.38it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1382000_to_1382999.csv
Processing rows 1383000 to 1383999
100%| | 1000/1000 [02:12<00:00, 7.55it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1383000_to_1383999.csv
Processing rows 1384000 to 1384999
100%| | 1000/1000 [02:12<00:00, 7.54it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1384000_to_1384999.csv
Processing rows 1385000 to 1385999
100%| | 1000/1000 [02:09<00:00, 7.73it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1385000_to_1385999.csv
Processing rows 1386000 to 1386999
100%| | 1000/1000 [02:16<00:00, 7.34it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1386000_to_1386999.csv
Processing rows 1387000 to 1387999
100%| | 1000/1000 [02:16<00:00, 7.32it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1387000_to_1387999.csv
Processing rows 1388000 to 1388999
100%| | 1000/1000 [02:18<00:00, 7.23it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1388000_to_1388999.csv
Processing rows 1389000 to 1389999
100%| | 1000/1000 [02:12<00:00, 7.54it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1389000_to_1389999.csv
Processing rows 1390000 to 1390999

100%| | 1000/1000 [02:15<00:00, 7.38it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1390000_to_1390999.csv
 Processing rows 1391000 to 1391999

100%| | 1000/1000 [02:11<00:00, 7.62it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1391000_to_1391999.csv
 Processing rows 1392000 to 1392999

100%| | 1000/1000 [02:12<00:00, 7.55it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1392000_to_1392999.csv
 Processing rows 1393000 to 1393999

100%| | 1000/1000 [02:15<00:00, 7.40it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1393000_to_1393999.csv
 Processing rows 1394000 to 1394999

100%| | 1000/1000 [02:10<00:00, 7.64it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1394000_to_1394999.csv
 Processing rows 1395000 to 1395999

100%| | 1000/1000 [02:13<00:00, 7.47it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1395000_to_1395999.csv
 Processing rows 1396000 to 1396999

100%| | 1000/1000 [02:11<00:00, 7.59it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1396000_to_1396999.csv
 Processing rows 1397000 to 1397999

100%| | 1000/1000 [02:13<00:00, 7.47it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1397000_to_1397999.csv
 Processing rows 1398000 to 1398999

100%| | 1000/1000 [02:11<00:00, 7.61it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1398000_to_1398999.csv
 Processing rows 1399000 to 1399999

100%| | 1000/1000 [02:11<00:00, 7.62it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1399000_to_1399999.csv
Processing rows 1400000 to 1400999
100%| | 1000/1000 [02:12<00:00, 7.53it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1400000_to_1400999.csv
Processing rows 1401000 to 1401999
100%| | 1000/1000 [02:10<00:00, 7.66it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1401000_to_1401999.csv
Processing rows 1402000 to 1402999
100%| | 1000/1000 [02:12<00:00, 7.56it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1402000_to_1402999.csv
Processing rows 1403000 to 1403999
100%| | 1000/1000 [02:10<00:00, 7.64it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1403000_to_1403999.csv
Processing rows 1404000 to 1404999
100%| | 1000/1000 [02:15<00:00, 7.39it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1404000_to_1404999.csv
Processing rows 1405000 to 1405999
100%| | 1000/1000 [02:14<00:00, 7.45it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1405000_to_1405999.csv
Processing rows 1406000 to 1406999
100%| | 1000/1000 [02:13<00:00, 7.47it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1406000_to_1406999.csv
Processing rows 1407000 to 1407999
100%| | 1000/1000 [02:11<00:00, 7.63it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1407000_to_1407999.csv
Processing rows 1408000 to 1408999
100%| | 1000/1000 [02:10<00:00, 7.64it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1408000_to_1408999.csv
Processing rows 1409000 to 1409999

100%| | 1000/1000 [02:09<00:00, 7.71it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1409000_to_1409999.csv
 Processing rows 1410000 to 1410999

100%| | 1000/1000 [02:12<00:00, 7.54it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1410000_to_1410999.csv
 Processing rows 1411000 to 1411999

100%| | 1000/1000 [02:10<00:00, 7.68it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1411000_to_1411999.csv
 Processing rows 1412000 to 1412999

100%| | 1000/1000 [02:12<00:00, 7.56it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1412000_to_1412999.csv
 Processing rows 1413000 to 1413999

100%| | 1000/1000 [02:11<00:00, 7.61it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1413000_to_1413999.csv
 Processing rows 1414000 to 1414999

100%| | 1000/1000 [02:13<00:00, 7.49it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1414000_to_1414999.csv
 Processing rows 1415000 to 1415999

100%| | 1000/1000 [02:17<00:00, 7.29it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1415000_to_1415999.csv
 Processing rows 1416000 to 1416999

100%| | 1000/1000 [02:15<00:00, 7.37it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1416000_to_1416999.csv
 Processing rows 1417000 to 1417999

100%| | 1000/1000 [02:15<00:00, 7.40it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1417000_to_1417999.csv
 Processing rows 1418000 to 1418999

100%| | 1000/1000 [02:11<00:00, 7.59it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1418000_to_1418999.csv
Processing rows 1419000 to 1419999
100%| | 1000/1000 [02:12<00:00, 7.52it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1419000_to_1419999.csv
Processing rows 1420000 to 1420999
100%| | 1000/1000 [02:13<00:00, 7.50it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1420000_to_1420999.csv
Processing rows 1421000 to 1421999
100%| | 1000/1000 [02:13<00:00, 7.47it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1421000_to_1421999.csv
Processing rows 1422000 to 1422999
100%| | 1000/1000 [02:15<00:00, 7.40it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1422000_to_1422999.csv
Processing rows 1423000 to 1423999
100%| | 1000/1000 [02:09<00:00, 7.74it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1423000_to_1423999.csv
Processing rows 1424000 to 1424999
100%| | 1000/1000 [02:08<00:00, 7.79it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1424000_to_1424999.csv
Processing rows 1425000 to 1425999
100%| | 1000/1000 [02:11<00:00, 7.58it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1425000_to_1425999.csv
Processing rows 1426000 to 1426999
100%| | 1000/1000 [02:12<00:00, 7.56it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1426000_to_1426999.csv
Processing rows 1427000 to 1427999
100%| | 1000/1000 [02:13<00:00, 7.52it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1427000_to_1427999.csv
Processing rows 1428000 to 1428999

100%| | 1000/1000 [02:09<00:00, 7.73it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1428000_to_1428999.csv
Processing rows 1429000 to 1429999
100%| | 1000/1000 [02:12<00:00, 7.56it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1429000_to_1429999.csv
Processing rows 1430000 to 1430999
100%| | 1000/1000 [02:10<00:00, 7.65it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1430000_to_1430999.csv
Processing rows 1431000 to 1431999
100%| | 1000/1000 [02:10<00:00, 7.68it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1431000_to_1431999.csv
Processing rows 1432000 to 1432999
100%| | 1000/1000 [02:07<00:00, 7.84it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1432000_to_1432999.csv
Processing rows 1433000 to 1433999
100%| | 1000/1000 [02:08<00:00, 7.75it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1433000_to_1433999.csv
Processing rows 1434000 to 1434999
100%| | 1000/1000 [02:10<00:00, 7.68it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1434000_to_1434999.csv
Processing rows 1435000 to 1435999
100%| | 1000/1000 [02:08<00:00, 7.76it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1435000_to_1435999.csv
Processing rows 1436000 to 1436999
100%| | 1000/1000 [02:11<00:00, 7.62it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1436000_to_1436999.csv
Processing rows 1437000 to 1437999
100%| | 1000/1000 [02:08<00:00, 7.78it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1437000_to_1437999.csv
 Processing rows 1438000 to 1438999
 100%| | 1000/1000 [02:10<00:00, 7.69it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1438000_to_1438999.csv
 Processing rows 1439000 to 1439999
 100%| | 1000/1000 [02:09<00:00, 7.75it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1439000_to_1439999.csv
 Processing rows 1440000 to 1440999
 100%| | 1000/1000 [02:14<00:00, 7.43it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1440000_to_1440999.csv
 Processing rows 1441000 to 1441999
 100%| | 1000/1000 [02:11<00:00, 7.60it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1441000_to_1441999.csv
 Processing rows 1442000 to 1442999
 100%| | 1000/1000 [02:11<00:00, 7.59it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1442000_to_1442999.csv
 Processing rows 1443000 to 1443999
 100%| | 1000/1000 [02:09<00:00, 7.74it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1443000_to_1443999.csv
 Processing rows 1444000 to 1444999
 100%| | 1000/1000 [02:09<00:00, 7.73it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1444000_to_1444999.csv
 Processing rows 1445000 to 1445999
 100%| | 1000/1000 [02:08<00:00, 7.79it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1445000_to_1445999.csv
 Processing rows 1446000 to 1446999
 100%| | 1000/1000 [02:09<00:00, 7.70it/s]

Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1446000_to_1446999.csv
 Processing rows 1447000 to 1447999

100%| | 1000/1000 [02:08<00:00, 7.77it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1447000_to_1447999.csv
Processing rows 1448000 to 1448999

100%| | 1000/1000 [02:14<00:00, 7.43it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1448000_to_1448999.csv
Processing rows 1449000 to 1449999

100%| | 1000/1000 [02:09<00:00, 7.70it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1449000_to_1449999.csv
Processing rows 1450000 to 1450999

100%| | 1000/1000 [02:15<00:00, 7.36it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1450000_to_1450999.csv
Processing rows 1451000 to 1451999

100%| | 1000/1000 [02:15<00:00, 7.37it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1451000_to_1451999.csv
Processing rows 1452000 to 1452999

100%| | 1000/1000 [02:12<00:00, 7.52it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1452000_to_1452999.csv
Processing rows 1453000 to 1453999

100%| | 1000/1000 [02:10<00:00, 7.68it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1453000_to_1453999.csv
Processing rows 1454000 to 1454999

100%| | 1000/1000 [02:07<00:00, 7.81it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1454000_to_1454999.csv
Processing rows 1455000 to 1455999

100%| | 1000/1000 [02:09<00:00, 7.69it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1455000_to_1455999.csv
Processing rows 1456000 to 1456999

100%| | 1000/1000 [02:07<00:00, 7.87it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1456000_to_1456999.csv
Processing rows 1457000 to 1457999
100%| | 1000/1000 [02:11<00:00, 7.61it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1457000_to_1457999.csv
Processing rows 1458000 to 1458999
100%| | 1000/1000 [02:08<00:00, 7.76it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1458000_to_1458999.csv
Processing rows 1459000 to 1459999
100%| | 1000/1000 [02:12<00:00, 7.54it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1459000_to_1459999.csv
Processing rows 1460000 to 1460999
100%| | 1000/1000 [02:08<00:00, 7.77it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1460000_to_1460999.csv
Processing rows 1461000 to 1461999
100%| | 1000/1000 [02:13<00:00, 7.48it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1461000_to_1461999.csv
Processing rows 1462000 to 1462999
100%| | 1000/1000 [02:06<00:00, 7.87it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1462000_to_1462999.csv
Processing rows 1463000 to 1463999
100%| | 1000/1000 [02:08<00:00, 7.78it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1463000_to_1463999.csv
Processing rows 1464000 to 1464999
100%| | 1000/1000 [02:10<00:00, 7.66it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1464000_to_1464999.csv
Processing rows 1465000 to 1465999
100%| | 1000/1000 [02:13<00:00, 7.48it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1465000_to_1465999.csv
Processing rows 1466000 to 1466999

100%| | 1000/1000 [02:11<00:00, 7.63it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1466000_to_1466999.csv
Processing rows 1467000 to 1467999
100%| | 1000/1000 [02:08<00:00, 7.76it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1467000_to_1467999.csv
Processing rows 1468000 to 1468999
100%| | 1000/1000 [02:12<00:00, 7.56it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1468000_to_1468999.csv
Processing rows 1469000 to 1469999
100%| | 1000/1000 [02:11<00:00, 7.62it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1469000_to_1469999.csv
Processing rows 1470000 to 1470999
100%| | 1000/1000 [02:08<00:00, 7.79it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1470000_to_1470999.csv
Processing rows 1471000 to 1471999
100%| | 1000/1000 [02:10<00:00, 7.67it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1471000_to_1471999.csv
Processing rows 1472000 to 1472999
100%| | 1000/1000 [02:08<00:00, 7.77it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1472000_to_1472999.csv
Processing rows 1473000 to 1473999
100%| | 1000/1000 [02:09<00:00, 7.70it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1473000_to_1473999.csv
Processing rows 1474000 to 1474999
100%| | 1000/1000 [02:10<00:00, 7.68it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1474000_to_1474999.csv
Processing rows 1475000 to 1475999
100%| | 1000/1000 [02:13<00:00, 7.49it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1475000_to_1475999.csv
Processing rows 1476000 to 1476999
100%| | 1000/1000 [02:08<00:00, 7.79it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1476000_to_1476999.csv
Processing rows 1477000 to 1477999
100%| | 1000/1000 [02:11<00:00, 7.59it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1477000_to_1477999.csv
Processing rows 1478000 to 1478999
100%| | 1000/1000 [02:09<00:00, 7.75it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1478000_to_1478999.csv
Processing rows 1479000 to 1479999
100%| | 1000/1000 [02:12<00:00, 7.53it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1479000_to_1479999.csv
Processing rows 1480000 to 1480999
100%| | 1000/1000 [02:10<00:00, 7.66it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1480000_to_1480999.csv
Processing rows 1481000 to 1481999
100%| | 1000/1000 [02:08<00:00, 7.81it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1481000_to_1481999.csv
Processing rows 1482000 to 1482999
100%| | 1000/1000 [02:08<00:00, 7.77it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1482000_to_1482999.csv
Processing rows 1483000 to 1483999
100%| | 1000/1000 [02:08<00:00, 7.81it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1483000_to_1483999.csv
Processing rows 1484000 to 1484999
100%| | 1000/1000 [02:13<00:00, 7.49it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1484000_to_1484999.csv
Processing rows 1485000 to 1485999

100%| | 1000/1000 [02:06<00:00, 7.88it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1485000_to_1485999.csv
Processing rows 1486000 to 1486999
100%| | 1000/1000 [02:08<00:00, 7.78it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1486000_to_1486999.csv
Processing rows 1487000 to 1487999
100%| | 1000/1000 [02:08<00:00, 7.76it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1487000_to_1487999.csv
Processing rows 1488000 to 1488999
100%| | 1000/1000 [02:08<00:00, 7.80it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1488000_to_1488999.csv
Processing rows 1489000 to 1489999
100%| | 1000/1000 [02:07<00:00, 7.84it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1489000_to_1489999.csv
Processing rows 1490000 to 1490999
100%| | 1000/1000 [02:10<00:00, 7.67it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1490000_to_1490999.csv
Processing rows 1491000 to 1491999
100%| | 1000/1000 [02:07<00:00, 7.82it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1491000_to_1491999.csv
Processing rows 1492000 to 1492999
100%| | 1000/1000 [02:09<00:00, 7.73it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1492000_to_1492999.csv
Processing rows 1493000 to 1493999
100%| | 1000/1000 [02:08<00:00, 7.76it/s]
Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1493000_to_1493999.csv
Processing rows 1494000 to 1494999
100%| | 1000/1000 [02:08<00:00, 7.78it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1494000_to_1494999.csv
Processing rows 1495000 to 1495999
100%| | 1000/1000 [02:08<00:00, 7.77it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1495000_to_1495999.csv
Processing rows 1496000 to 1496999
100%| | 1000/1000 [02:08<00:00, 7.80it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1496000_to_1496999.csv
Processing rows 1497000 to 1497999
100%| | 1000/1000 [02:05<00:00, 7.94it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1497000_to_1497999.csv
Processing rows 1498000 to 1498999
100%| | 1000/1000 [02:07<00:00, 7.87it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1498000_to_1498999.csv
Processing rows 1499000 to 1499999
100%| | 1000/1000 [02:07<00:00, 7.83it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1499000_to_1499999.csv
Processing rows 1500000 to 1500999
100%| | 1000/1000 [02:13<00:00, 7.51it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1500000_to_1500999.csv
Processing rows 1501000 to 1501999
100%| | 1000/1000 [02:14<00:00, 7.44it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1501000_to_1501999.csv
Processing rows 1502000 to 1502999
100%| | 1000/1000 [02:11<00:00, 7.61it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1502000_to_1502999.csv
Processing rows 1503000 to 1503999
100%| | 1000/1000 [02:12<00:00, 7.54it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1503000_to_1503999.csv
Processing rows 1504000 to 1504999

100%| | 1000/1000 [02:13<00:00, 7.47it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1504000_to_1504999.csv
Processing rows 1505000 to 1505999

100%| | 1000/1000 [02:27<00:00, 6.78it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1505000_to_1505999.csv
Processing rows 1506000 to 1506999

100%| | 1000/1000 [02:37<00:00, 6.37it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1506000_to_1506999.csv
Processing rows 1507000 to 1507999

100%| | 1000/1000 [02:22<00:00, 7.01it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1507000_to_1507999.csv
Processing rows 1508000 to 1508999

100%| | 1000/1000 [02:21<00:00, 7.09it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1508000_to_1508999.csv
Processing rows 1509000 to 1509999

100%| | 1000/1000 [02:20<00:00, 7.10it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1509000_to_1509999.csv
Processing rows 1510000 to 1510999

100%| | 1000/1000 [02:10<00:00, 7.64it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1510000_to_1510999.csv
Processing rows 1511000 to 1511999

100%| | 1000/1000 [02:13<00:00, 7.49it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1511000_to_1511999.csv
Processing rows 1512000 to 1512999

100%| | 1000/1000 [02:10<00:00, 7.66it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1512000_to_1512999.csv
Processing rows 1513000 to 1513999

100%| | 1000/1000 [02:14<00:00, 7.46it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1513000_to_1513999.csv
Processing rows 1514000 to 1514999
100%| | 1000/1000 [02:10<00:00, 7.64it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1514000_to_1514999.csv
Processing rows 1515000 to 1515999
100%| | 1000/1000 [02:09<00:00, 7.70it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1515000_to_1515999.csv
Processing rows 1516000 to 1516999
100%| | 1000/1000 [02:13<00:00, 7.52it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1516000_to_1516999.csv
Processing rows 1517000 to 1517999
100%| | 1000/1000 [02:11<00:00, 7.63it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1517000_to_1517999.csv
Processing rows 1518000 to 1518999
100%| | 1000/1000 [02:10<00:00, 7.64it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1518000_to_1518999.csv
Processing rows 1519000 to 1519999
100%| | 1000/1000 [02:09<00:00, 7.72it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1519000_to_1519999.csv
Processing rows 1520000 to 1520999
100%| | 1000/1000 [02:10<00:00, 7.66it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1520000_to_1520999.csv
Processing rows 1521000 to 1521999
100%| | 1000/1000 [02:08<00:00, 7.78it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1521000_to_1521999.csv
Processing rows 1522000 to 1522999
100%| | 1000/1000 [02:07<00:00, 7.84it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1522000_to_1522999.csv
Processing rows 1523000 to 1523999

100%| | 1000/1000 [02:08<00:00, 7.77it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1523000_to_1523999.csv
 Processing rows 1524000 to 1524999

100%| | 1000/1000 [02:09<00:00, 7.74it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1524000_to_1524999.csv
 Processing rows 1525000 to 1525999

100%| | 1000/1000 [02:09<00:00, 7.74it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1525000_to_1525999.csv
 Processing rows 1526000 to 1526999

100%| | 1000/1000 [02:10<00:00, 7.65it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1526000_to_1526999.csv
 Processing rows 1527000 to 1527999

100%| | 1000/1000 [02:09<00:00, 7.71it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1527000_to_1527999.csv
 Processing rows 1528000 to 1528999

100%| | 1000/1000 [02:12<00:00, 7.56it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1528000_to_1528999.csv
 Processing rows 1529000 to 1529999

100%| | 1000/1000 [02:10<00:00, 7.65it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1529000_to_1529999.csv
 Processing rows 1530000 to 1530999

100%| | 1000/1000 [02:12<00:00, 7.54it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1530000_to_1530999.csv
 Processing rows 1531000 to 1531999

100%| | 1000/1000 [02:12<00:00, 7.55it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1531000_to_1531999.csv
 Processing rows 1532000 to 1532999

100%| | 1000/1000 [02:11<00:00, 7.59it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1532000_to_1532999.csv
Processing rows 1533000 to 1533999
100%| | 1000/1000 [02:13<00:00, 7.51it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1533000_to_1533999.csv
Processing rows 1534000 to 1534999
100%| | 1000/1000 [02:11<00:00, 7.59it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1534000_to_1534999.csv
Processing rows 1535000 to 1535999
100%| | 1000/1000 [02:11<00:00, 7.62it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1535000_to_1535999.csv
Processing rows 1536000 to 1536999
100%| | 1000/1000 [02:08<00:00, 7.81it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1536000_to_1536999.csv
Processing rows 1537000 to 1537999
100%| | 1000/1000 [02:08<00:00, 7.77it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1537000_to_1537999.csv
Processing rows 1538000 to 1538999
100%| | 1000/1000 [02:08<00:00, 7.76it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1538000_to_1538999.csv
Processing rows 1539000 to 1539999
100%| | 1000/1000 [02:09<00:00, 7.74it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1539000_to_1539999.csv
Processing rows 1540000 to 1540999
100%| | 1000/1000 [02:10<00:00, 7.64it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1540000_to_1540999.csv
Processing rows 1541000 to 1541999
100%| | 1000/1000 [02:08<00:00, 7.76it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1541000_to_1541999.csv
Processing rows 1542000 to 1542999

100%| | 1000/1000 [02:12<00:00, 7.54it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1542000_to_1542999.csv
 Processing rows 1543000 to 1543999

100%| | 1000/1000 [02:16<00:00, 7.34it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1543000_to_1543999.csv
 Processing rows 1544000 to 1544999

100%| | 1000/1000 [02:11<00:00, 7.62it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1544000_to_1544999.csv
 Processing rows 1545000 to 1545999

100%| | 1000/1000 [02:14<00:00, 7.44it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1545000_to_1545999.csv
 Processing rows 1546000 to 1546999

100%| | 1000/1000 [02:13<00:00, 7.47it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1546000_to_1546999.csv
 Processing rows 1547000 to 1547999

100%| | 1000/1000 [02:10<00:00, 7.65it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1547000_to_1547999.csv
 Processing rows 1548000 to 1548999

100%| | 1000/1000 [02:13<00:00, 7.48it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1548000_to_1548999.csv
 Processing rows 1549000 to 1549999

100%| | 1000/1000 [02:12<00:00, 7.52it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1549000_to_1549999.csv
 Processing rows 1550000 to 1550999

100%| | 1000/1000 [02:14<00:00, 7.45it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1550000_to_1550999.csv
 Processing rows 1551000 to 1551999

100%| | 1000/1000 [02:15<00:00, 7.36it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1551000_to_1551999.csv
Processing rows 1552000 to 1552999
100%| | 1000/1000 [02:15<00:00, 7.40it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1552000_to_1552999.csv
Processing rows 1553000 to 1553999
100%| | 1000/1000 [02:13<00:00, 7.48it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1553000_to_1553999.csv
Processing rows 1554000 to 1554999
100%| | 1000/1000 [02:13<00:00, 7.48it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1554000_to_1554999.csv
Processing rows 1555000 to 1555999
100%| | 1000/1000 [02:15<00:00, 7.40it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1555000_to_1555999.csv
Processing rows 1556000 to 1556999
100%| | 1000/1000 [02:14<00:00, 7.43it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1556000_to_1556999.csv
Processing rows 1557000 to 1557999
100%| | 1000/1000 [02:12<00:00, 7.52it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1557000_to_1557999.csv
Processing rows 1558000 to 1558999
100%| | 1000/1000 [02:11<00:00, 7.61it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1558000_to_1558999.csv
Processing rows 1559000 to 1559999
100%| | 1000/1000 [02:11<00:00, 7.60it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1559000_to_1559999.csv
Processing rows 1560000 to 1560999
100%| | 1000/1000 [02:11<00:00, 7.63it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1560000_to_1560999.csv
Processing rows 1561000 to 1561999

100%| | 1000/1000 [02:13<00:00, 7.49it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1561000_to_1561999.csv
Processing rows 1562000 to 1562999

100%| | 1000/1000 [02:14<00:00, 7.45it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1562000_to_1562999.csv
Processing rows 1563000 to 1563999

100%| | 1000/1000 [02:12<00:00, 7.55it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1563000_to_1563999.csv
Processing rows 1564000 to 1564999

100%| | 1000/1000 [02:14<00:00, 7.44it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1564000_to_1564999.csv
Processing rows 1565000 to 1565999

100%| | 1000/1000 [02:16<00:00, 7.30it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1565000_to_1565999.csv
Processing rows 1566000 to 1566999

100%| | 1000/1000 [02:16<00:00, 7.32it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1566000_to_1566999.csv
Processing rows 1567000 to 1567999

100%| | 1000/1000 [02:13<00:00, 7.50it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1567000_to_1567999.csv
Processing rows 1568000 to 1568999

100%| | 1000/1000 [02:15<00:00, 7.36it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1568000_to_1568999.csv
Processing rows 1569000 to 1569999

100%| | 1000/1000 [02:16<00:00, 7.34it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1569000_to_1569999.csv
Processing rows 1570000 to 1570999

100%| | 1000/1000 [02:15<00:00, 7.37it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1570000_to_1570999.csv
Processing rows 1571000 to 1571999
100%| | 1000/1000 [02:15<00:00, 7.40it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1571000_to_1571999.csv
Processing rows 1572000 to 1572999
100%| | 1000/1000 [02:15<00:00, 7.38it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1572000_to_1572999.csv
Processing rows 1573000 to 1573999
100%| | 1000/1000 [02:32<00:00, 6.55it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1573000_to_1573999.csv
Processing rows 1574000 to 1574999
100%| | 1000/1000 [02:12<00:00, 7.55it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1574000_to_1574999.csv
Processing rows 1575000 to 1575999
100%| | 1000/1000 [02:24<00:00, 6.92it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1575000_to_1575999.csv
Processing rows 1576000 to 1576999
100%| | 1000/1000 [02:40<00:00, 6.22it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1576000_to_1576999.csv
Processing rows 1577000 to 1577999
100%| | 1000/1000 [02:35<00:00, 6.43it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1577000_to_1577999.csv
Processing rows 1578000 to 1578999
100%| | 1000/1000 [02:34<00:00, 6.49it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1578000_to_1578999.csv
Processing rows 1579000 to 1579999
100%| | 1000/1000 [02:16<00:00, 7.32it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1579000_to_1579999.csv
Processing rows 1580000 to 1580999

100%| | 1000/1000 [02:16<00:00, 7.32it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1580000_to_1580999.csv
 Processing rows 1581000 to 1581999

100%| | 1000/1000 [02:14<00:00, 7.42it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1581000_to_1581999.csv
 Processing rows 1582000 to 1582999

100%| | 1000/1000 [02:27<00:00, 6.78it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1582000_to_1582999.csv
 Processing rows 1583000 to 1583999

100%| | 1000/1000 [02:38<00:00, 6.29it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1583000_to_1583999.csv
 Processing rows 1584000 to 1584999

100%| | 1000/1000 [02:26<00:00, 6.84it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1584000_to_1584999.csv
 Processing rows 1585000 to 1585999

100%| | 1000/1000 [02:14<00:00, 7.46it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1585000_to_1585999.csv
 Processing rows 1586000 to 1586999

100%| | 1000/1000 [02:15<00:00, 7.37it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1586000_to_1586999.csv
 Processing rows 1587000 to 1587999

100%| | 1000/1000 [02:15<00:00, 7.39it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1587000_to_1587999.csv
 Processing rows 1588000 to 1588999

100%| | 1000/1000 [02:15<00:00, 7.37it/s]
 Saved to
 /content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1588000_to_1588999.csv
 Processing rows 1589000 to 1589999

100%| | 1000/1000 [02:15<00:00, 7.39it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1589000_to_1589999.csv
Processing rows 1590000 to 1590999
100%| | 1000/1000 [02:28<00:00, 6.75it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1590000_to_1590999.csv
Processing rows 1591000 to 1591999
100%| | 1000/1000 [02:31<00:00, 6.60it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1591000_to_1591999.csv
Processing rows 1592000 to 1592999
100%| | 1000/1000 [02:30<00:00, 6.64it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1592000_to_1592999.csv
Processing rows 1593000 to 1593999
100%| | 1000/1000 [02:31<00:00, 6.58it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1593000_to_1593999.csv
Processing rows 1594000 to 1594999
100%| | 1000/1000 [02:30<00:00, 6.67it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1594000_to_1594999.csv
Processing rows 1595000 to 1595999
100%| | 1000/1000 [02:29<00:00, 6.68it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1595000_to_1595999.csv
Processing rows 1596000 to 1596999
100%| | 1000/1000 [02:34<00:00, 6.49it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1596000_to_1596999.csv
Processing rows 1597000 to 1597999
100%| | 1000/1000 [02:22<00:00, 7.01it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1597000_to_1597999.csv
Processing rows 1598000 to 1598999
100%| | 1000/1000 [02:16<00:00, 7.33it/s]

Saved to
/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1598000_to_1598999.csv
Processing rows 1599000 to 1599999

100% | 1000/1000 [02:11<00:00, 7.61it/s]

Saved to

/content/drive/MyDrive/NLP_Proj/Output/method2_annotation_1599000_to_1599999.csv

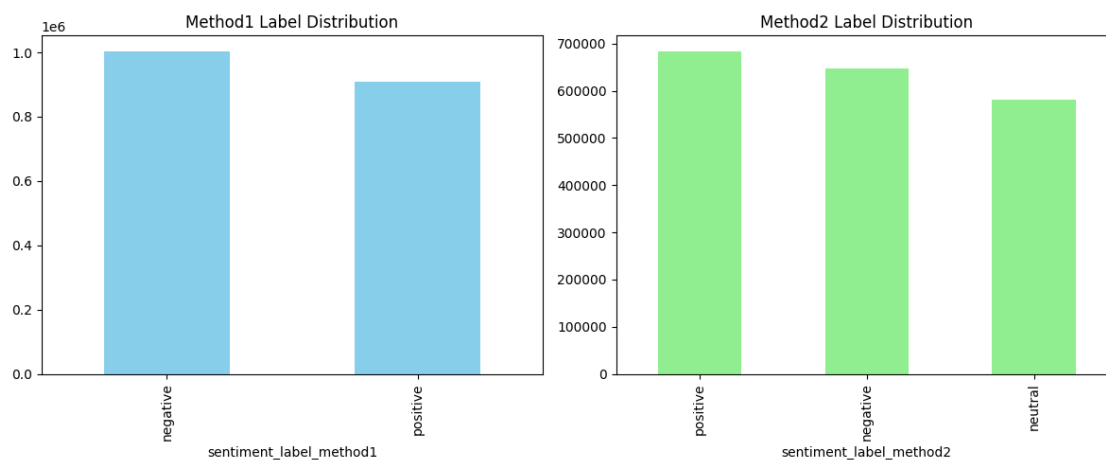
```
[ ]: import seaborn as sns
import matplotlib.pyplot as plt
from sklearn.metrics import confusion_matrix, classification_report
```

1.3.4 Analyze the differences between two annotation results

```
[ ]: # Plot class distribution for both methods
fig, ax = plt.subplots(1, 2, figsize=(12, 5))

df_compare["sentiment_label_method1"].value_counts().plot(kind='bar', ax=ax[0],
    title='Method1 Label Distribution', color='skyblue')
df_compare["sentiment_label_method2"].value_counts().plot(kind='bar', ax=ax[1],
    title='Method2 Label Distribution', color='lightgreen')

plt.tight_layout()
plt.show()
```



1.4 2. Preprocessing

- lowercase
- remove special characters, emoji, urls, mentions
- tokenize
- remove stopwords
- stemming or lemmatization

- hashtag, slang, emoji

Read the annotation file.

```
[ ]: path = "/content/drive/MyDrive/NLP_Proj/Output/annotation_compare.csv"
df_compare = pd.read_csv(path)
pd.set_option('display.max_colwidth', None)
print(f"Shape of df_compare: {df_compare.shape}")
display(df_compare.head()) # print the first 5 rows of the dataset
```

Shape of df_compare: (1581466, 3)

```

                                text \
0 @switchfoot http://twitpic.com/2y1zl - Awww, that's a bummer. You shoulda
  got David Carr of Third Day to do it. ;D
1      is upset that he can't update his Facebook by texting it... and might cry
  as a result School today also. Blah!
2                                @Kenichan I dived many times for the ball. Managed
  to save 50% The rest go out of bounds
3                                                                my whole
  body feels itchy and like its on fire
4      @nationwideclass no, it's not behaving at all. i'm mad. why am i here?
  because I can't see you all over there.
```

	sentiment_label_method1	sentiment_label_method2
0	negative	negative
1	negative	negative
2	negative	neutral
3	negative	negative
4	negative	negative

Define related data structures.

```
[ ]: # Initialize stopwords and lemmatizer
stop_words = set(stopwords.words("english"))
lemmatizer = WordNetLemmatizer()

# Define a basic slang dictionary
slang_dict = {
    "u": "you", "r": "are", "idk": "i do not know", "btw": "by the way",
    "lol": "laugh out loud", "omg": "oh my god", "ttyl": "talk to you later",
    "smh": "shaking my head", "brb": "be right back"
}

# Define emoji to label mapping
emoji_map = {
    " ": "emoji_happy", " ": "emoji_happy", " ": "emoji_laugh",
    " ": "emoji_cry", " ": "emoji_cry", " ": "emoji_love",
```

```

    " ": "emoji_sad", " ": "emoji_angry", " ": "emoji_thumbsup"
}

# Main preprocessing function
def preprocess_text(text):
    if not isinstance(text, str):
        return ""

    # Convert to lowercase
    text = text.lower()

    # Replace emojis with label tokens
    text = "".join(emoji_map.get(char, char) for char in text)

    # Remove URLs
    text = re.sub(r"http\S+|www\S+", "", text)

    # Remove user mentions, keep hashtags without symbol
    text = re.sub(r"@w+", "", text)
    text = re.sub(r"#", "", text)

    # Remove non-alphabetic characters (keep spaces)
    text = re.sub(r"[^a-z\s]", " ", text)

    # Tokenize text
    tokens = word_tokenize(text)

    # Replace slang terms with full forms
    tokens = [slang_dict.get(word, word) for word in tokens]

    # Remove stopwords
    tokens = [word for word in tokens if word not in stop_words]

    # Lemmatize tokens
    tokens = [lemmatizer.lemmatize(word) for word in tokens]

    # Join tokens back to a single string
    return " ".join(tokens)

```

Create a new annotation copy - df_clean

```

[ ]: # Create a copy to avoid modifying original df
df_clean = df_compare[["text", "sentiment_label_method2"]].copy()
df_clean["text_cleaned"] = df_clean["text"].apply(preprocess_text)
print(f"Shape of df_clean: {df_clean.shape}")
df_clean.head()

```

```
df_clean.to_csv("/content/drive/MyDrive/NLP_Proj/Output/method2_cleaned.csv",
               index=False)
```

Drop nan from cleaned dataframe. (Only Run once)

```
[ ]: df_clean = df_clean.dropna(subset=["text_cleaned"])
      print(f"Shape of df_clean: {df_clean.shape}")
      df_clean.to_csv("/content/drive/MyDrive/NLP_Proj/Output/_method2_cleaned.csv")
      df_clean.head()
```

Shape of df_clean: (1573176, 3)

```
[ ]:                                     text sentiment_label_method2 \
0  @switchfoot http://twitpic.com/2y1zl - Awww, t...          negative
1  is upset that he can't update his Facebook by ...          negative
2  @Kenichan I dived many times for the ball. Man...          neutral
3    my whole body feels itchy and like its on fire            negative
4  @nationwideclass no, it's not behaving at all...          negative

                                     text_cleaned
0          bummer shoulda got david carr third day
1  upset update facebook texting might cry result...
2    dived many time ball managed save rest go bound
3          whole body feel itchy like fire
4          behaving mad see
```

1.5 3. Feature Extraction and Model Comparison

1.5.1 Feature Extraction methods

- Experiment 1: Bag of Words + Naive Bayes
- Experiment 2: TF-IDF + logistic regression
- Experiment 3: BERT Sentence Embedding + 'MLP / LogisticRegression'

Load preprocessed data - df_clean

```
[ ]: path = "/content/drive/MyDrive/NLP_Proj/Output/_method2_cleaned.csv"
      df_clean = pd.read_csv(path)

      print(f"Shape of df_clean: {df_clean.shape}")
      df_clean.head()
```

Shape of df_clean: (1573176, 4)

```
[ ]: Unnamed: 0                                     text \
0          0  @switchfoot http://twitpic.com/2y1zl - Awww, t...
1          1  is upset that he can't update his Facebook by ...
2          2  @Kenichan I dived many times for the ball. Man...
3          3    my whole body feels itchy and like its on fire
4          4  @nationwideclass no, it's not behaving at all...
```

	sentiment_label_method2	text_cleaned
0	negative	bummer shoulda got david carr third day
1	negative	upset update facebook texting might cry result...
2	neutral	dived many time ball managed save rest go bound
3	negative	whole body feel itchy like fire
4	negative	behaving mad see

1.5.2 Experiment 1: Bag of Words + Naive Bayes

```
[ ]: # Select features for independent and dependent variables
X = df_clean["text_cleaned"]
y = df_clean["sentiment_label_method2"]

# Train/test split
X_train, X_test, y_train, y_test = train_test_split(
    X, y, test_size=0.2, random_state=42, stratify=y
)

# Conduct Bag of Words vectorization
vectorizer = CountVectorizer(max_features=5000)
X_train_bow = vectorizer.fit_transform(X_train)
X_test_bow = vectorizer.transform(X_test)

# Perform Naive Bayes training
nb_model = MultinomialNB()
nb_model.fit(X_train_bow, y_train)

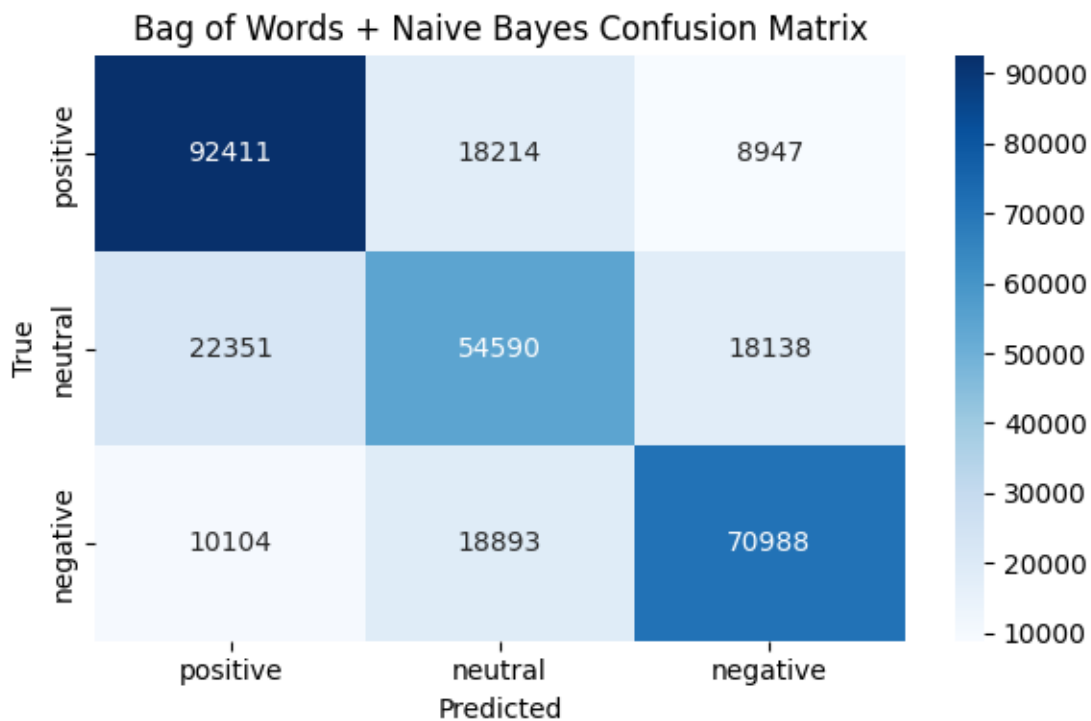
# Predict on testing set
y_pred = nb_model.predict(X_test_bow)

# Print Evaluation report
print("Classification Report:")
print(classification_report(y_test, y_pred))

# Confusion matrix
plt.figure(figsize=(6, 4))
cm = confusion_matrix(y_test, y_pred, labels=["positive", "neutral", "negative"])
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues",
            xticklabels=["positive", "neutral", "negative"],
            yticklabels=["positive", "neutral", "negative"])
plt.xlabel("Predicted")
plt.ylabel("True")
plt.title("Bag of Words + Naive Bayes Confusion Matrix")
plt.tight_layout()
plt.show()
```


Classification Report:

	precision	recall	f1-score	support
negative	0.72	0.71	0.72	99985
neutral	0.60	0.57	0.58	95079
positive	0.74	0.77	0.76	119572
accuracy			0.69	314636
macro avg	0.69	0.69	0.69	314636
weighted avg	0.69	0.69	0.69	314636



Store bow vectors into `x_train_bow.npz` and `X_test_bow.npz`.

```
[ ]: X_train_bow = vectorizer.fit_transform(X_train)
      X_test_bow = vectorizer.transform(X_test)

      path = "/content/drive/MyDrive/NLP_Proj/Output/_method2_cleaned.csv"
      folder = "/content/drive/MyDrive/NLP_Proj/Output/features/bow"
      os.makedirs(folder, exist_ok=True)
      joblib.dump(vectorizer, f"{folder}/bow_vectorizer.pkl")

      # Save to sparse npz
```

```

sparse.save_npz(f"{folder}/x_train_bow.npz", X_train_bow)
sparse.save_npz(f"{folder}/x_test_bow.npz", X_test_bow)

# Load from sparse npz
X_train_bow = sparse.load_npz(f"{folder}/x_train_bow.npz")
X_test_bow = sparse.load_npz(f"{folder}/x_test_bow.npz")

```

1.5.3 Experiment 2: TF-IDF + logistic regression

```

[ ]: # Prepare features and labels
X = df_clean["text_cleaned"]
y = df_clean["sentiment_label_method2"]

# Split into training and test sets
X_train, X_test, y_train, y_test = train_test_split(
    X, y, test_size=0.2, random_state=42, stratify=y
)

# Perform TF-IDF Vectorization
tfidf = TfidfVectorizer(max_features=5000) # You can adjust this
X_train_tfidf = tfidf.fit_transform(X_train)
X_test_tfidf = tfidf.transform(X_test)

# Train Logistic Regression model
clf = LogisticRegression(max_iter=200)
clf.fit(X_train_tfidf, y_train)

# Predict and evaluate
y_pred = clf.predict(X_test_tfidf)

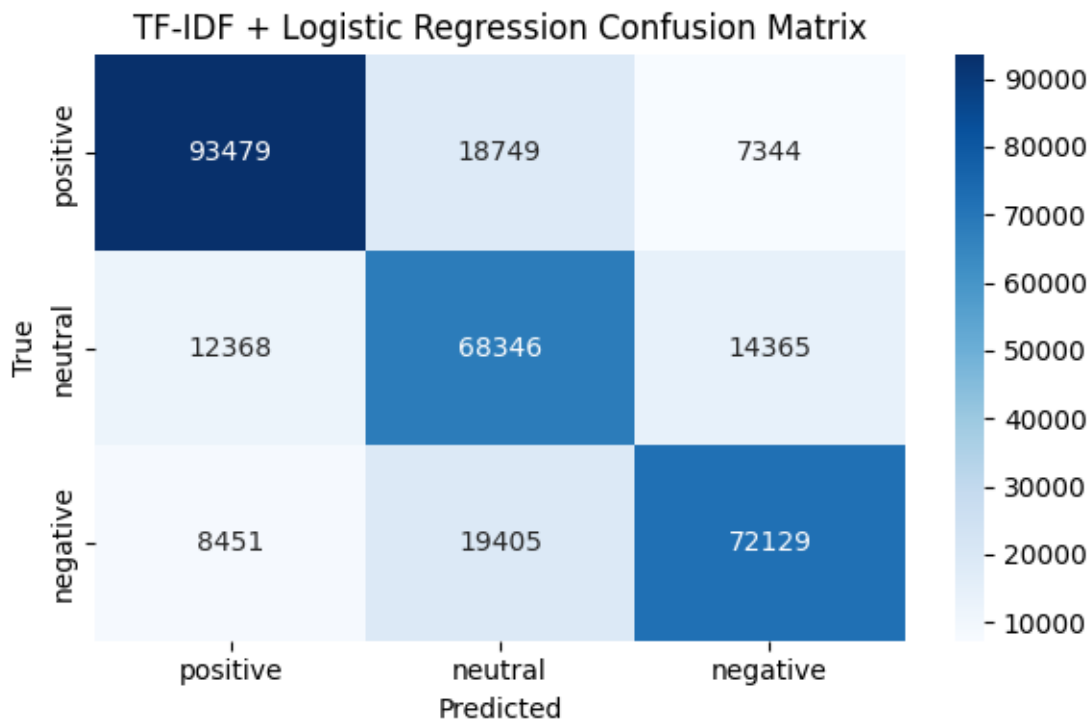
# Classification report
print("Classification Report:")
print(classification_report(y_test, y_pred))

# Confusion matrix plot
plt.figure(figsize=(6, 4))
cm = confusion_matrix(y_test, y_pred, labels=["positive", "neutral", "negative"])
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues", xticklabels=["positive", "neutral", "negative"], yticklabels=["positive", "neutral", "negative"])
plt.xlabel("Predicted")
plt.ylabel("True")
plt.title("TF-IDF + Logistic Regression Confusion Matrix")
plt.tight_layout()
plt.show()

```

Classification Report:

	precision	recall	f1-score	support
negative	0.77	0.72	0.74	99985
neutral	0.64	0.72	0.68	95079
positive	0.82	0.78	0.80	119572
accuracy			0.74	314636
macro avg	0.74	0.74	0.74	314636
weighted avg	0.75	0.74	0.75	314636



```
[ ]: path = "/content/drive/MyDrive/NLP_Proj/Output/_method2_cleaned.csv"
      folder = "/content/drive/MyDrive/NLP_Proj/Output/features/tfidf"
      os.makedirs(folder, exist_ok=True)
      joblib.dump(tfidf, f"{folder}/tfidf_vectorizer.pkl")

      # Save to sparse npz
      sparse.save_npz(f"{folder}/x_train_tfidf.npz", X_train_tfidf)
      sparse.save_npz(f"{folder}/x_test_tfidf.npz", X_test_tfidf)

      # Load from sparse npz
      X_train_tfidf = sparse.load_npz(f"{folder}/x_train_tfidf.npz")
      X_test_tfidf = sparse.load_npz(f"{folder}/x_test_tfidf.npz")
```

1.5.4 Experiment 3-1: BERT Sentence Embedding + LogisticRegression

Generate embedding vectors by Bert.

```
[ ]: # Select input and output features
X = df_clean["text_cleaned"].tolist()
y = df_clean["sentiment_label_method2"]

# Train test Split
X_train, X_test, y_train, y_test = train_test_split(
    X, y, test_size=0.2, random_state=42, stratify=y
)

# Load pre-trained BERT model and embed
model = SentenceTransformer("all-MiniLM-L6-v2") # 384-dim, fast and good
X_train_emb = model.encode(X_train, batch_size=64, show_progress_bar=True)
X_test_emb = model.encode(X_test, batch_size=64, show_progress_bar=True)
```

/usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/_auth.py:94:

UserWarning:

The secret `HF_TOKEN` does not exist in your Colab secrets.

To authenticate with the Hugging Face Hub, create a token in your settings tab (<https://huggingface.co/settings/tokens>), set it as secret in your Google Colab and restart your session.

You will be able to reuse this secret in all of your notebooks.

Please note that authentication is recommended but still optional to access public models or datasets.

warnings.warn(

modules.json: 0%| | 0.00/349 [00:00<?, ?B/s]

config_sentence_transformers.json: 0%| | 0.00/116 [00:00<?, ?B/s]

README.md: 0%| | 0.00/10.5k [00:00<?, ?B/s]

sentence_bert_config.json: 0%| | 0.00/53.0 [00:00<?, ?B/s]

config.json: 0%| | 0.00/612 [00:00<?, ?B/s]

Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed.

Falling back to regular HTTP download. For better performance, install the package with: `pip install huggingface_hub[hf_xet]` or `pip install hf_xet`

WARNING:huggingface_hub.file_download:Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed. Falling back to regular HTTP download.

For better performance, install the package with: `pip install huggingface_hub[hf_xet]` or `pip install hf_xet`

model.safetensors: 0%| | 0.00/90.9M [00:00<?, ?B/s]

tokenizer_config.json: 0%| | 0.00/350 [00:00<?, ?B/s]

vocab.txt: 0%| | 0.00/232k [00:00<?, ?B/s]

tokenizer.json: 0%| | 0.00/466k [00:00<?, ?B/s]

```
special_tokens_map.json: 0%|          | 0.00/112 [00:00<?, ?B/s]
config.json: 0%|          | 0.00/190 [00:00<?, ?B/s]
Batches: 0%|          | 0/19665 [00:00<?, ?it/s]
Batches: 0%|          | 0/4917 [00:00<?, ?it/s]
```

Save the embedding vectors.

```
[ ]: path = "/content/drive/MyDrive/NLP_Proj/Output/_method2_cleaned.csv"
      folder = "/content/drive/MyDrive/NLP_Proj/Output/features/bert"
      os.makedirs(folder, exist_ok=True)

      X_train_sparse = sparse.csr_matrix(X_train_emb)
      X_test_sparse = sparse.csr_matrix(X_test_emb)
      sparse.save_npz(f"{folder}/X_train_bert.npz", X_train_sparse)
      sparse.save_npz(f"{folder}/X_test_bert.npz", X_test_sparse)

      X_train_emb = sparse.load_npz(f"{folder}/X_train_bert.npz").toarray()
      X_test_emb = sparse.load_npz(f"{folder}/X_test_bert.npz").toarray()
```

Classification using LogisticRegression

```
[ ]: # Choose classifier
      clf = LogisticRegression(max_iter=200)
      # clf = MLPClassifier(hidden_layer_sizes=(256,), max_iter=10, random_state=42)

      # Train and predict
      clf.fit(X_train_emb, y_train)
      y_pred = clf.predict(X_test_emb)

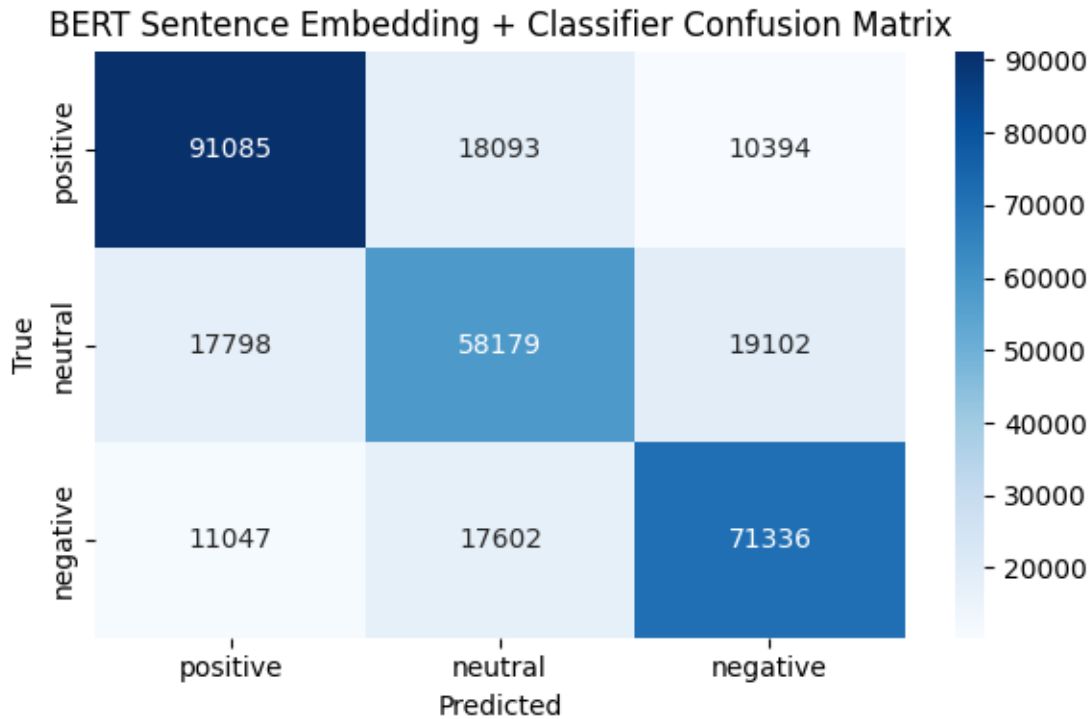
      # Evaluation
      print("Classification Report:")
      print(classification_report(y_test, y_pred))

      # Confusion matrix
      plt.figure(figsize=(6, 4))
      cm = confusion_matrix(y_test, y_pred, labels=["positive", "neutral", "negative"])
      sns.heatmap(cm, annot=True, fmt="d", cmap="Blues",
                  xticklabels=["positive", "neutral", "negative"],
                  yticklabels=["positive", "neutral", "negative"])
      plt.xlabel("Predicted")
      plt.ylabel("True")
      plt.title("BERT Sentence Embedding + Classifier Confusion Matrix")
      plt.tight_layout()
      plt.show()
```

Classification Report:

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

negative	0.71	0.71	0.71	99985
neutral	0.62	0.61	0.62	95079
positive	0.76	0.76	0.76	119572
accuracy			0.70	314636
macro avg	0.70	0.70	0.70	314636
weighted avg	0.70	0.70	0.70	314636



1.5.5 Experiment 3-2: BERT Sentence Embedding + MLP

Classification using MLP

```
[ ]: # Choose classifier
clf = MLPClassifier(hidden_layer_sizes=(256,), max_iter=10, random_state=42) #
    ↳ optional

# Train and predict
clf.fit(X_train_emb, y_train)
y_pred = clf.predict(X_test_emb)

# Evaluation
print("Classification Report:")
```

```

print(classification_report(y_test, y_pred))

# Confusion matrix
plt.figure(figsize=(6, 4))
cm = confusion_matrix(y_test, y_pred, labels=["positive", "neutral", "negative"])
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues",
            xticklabels=["positive", "neutral", "negative"],
            yticklabels=["positive", "neutral", "negative"])
plt.xlabel("Predicted")
plt.ylabel("True")
plt.title("BERT Sentence Embedding + Classifier Confusion Matrix")
plt.tight_layout()
plt.show()

```

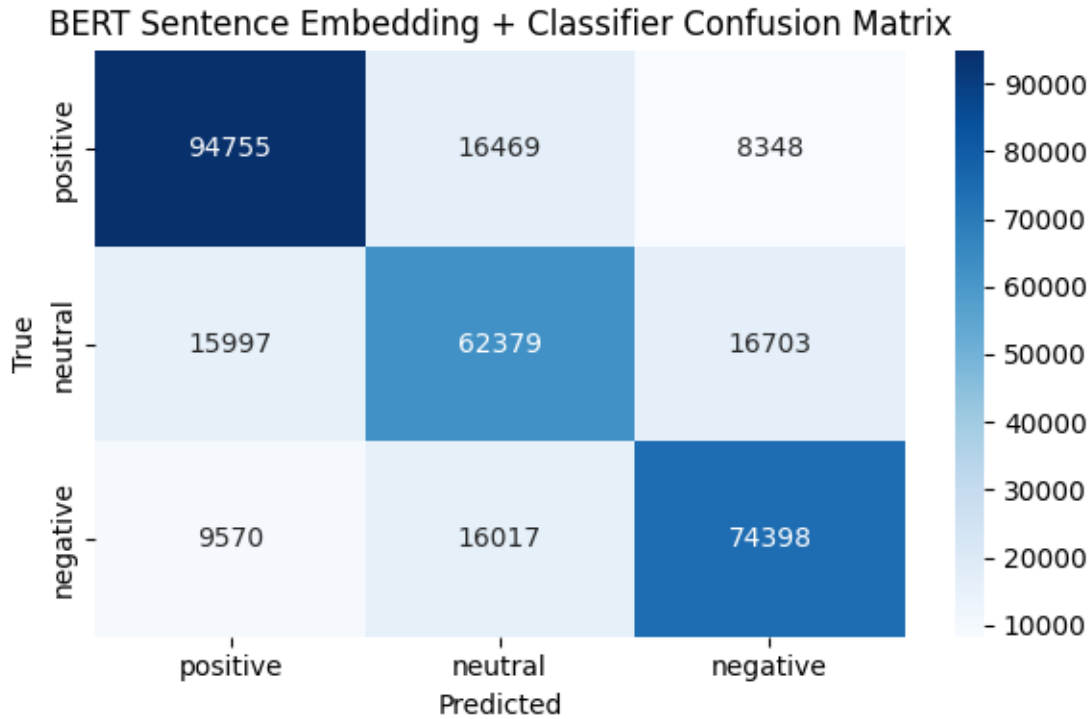
```

/usr/local/lib/python3.11/dist-
packages/sklearn/neural_network/_multilayer_perceptron.py:691:
ConvergenceWarning: Stochastic Optimizer: Maximum iterations (10) reached and
the optimization hasn't converged yet.
  warnings.warn(

```

Classification Report:

	precision	recall	f1-score	support
negative	0.75	0.74	0.75	99985
neutral	0.66	0.66	0.66	95079
positive	0.79	0.79	0.79	119572
accuracy			0.74	314636
macro avg	0.73	0.73	0.73	314636
weighted avg	0.74	0.74	0.74	314636



```
[ ]: # Re-import necessary library due to state reset
import pandas as pd

# Create a comparison DataFrame for all 4 experimental results
comparison_data = {
    "Model": [
        "Bag of Words + Naive Bayes",
        "TF-IDF + Logistic Regression",
        "BERT + Logistic Regression",
        "BERT + MLP"
    ],
    "Negative Precision": [0.72, 0.77, 0.71, 0.75],
    "Neutral Precision": [0.60, 0.64, 0.62, 0.66],
    "Positive Precision": [0.74, 0.82, 0.76, 0.79],
    "Accuracy": [0.69, 0.74, 0.70, 0.74],
    "Weighted F1-score": [0.69, 0.75, 0.70, 0.74]
}

comparison_df = pd.DataFrame(comparison_data)
display(comparison_df)
```

	Model	Negative Precision	Neutral Precision \
0	Bag of Words + Naive Bayes	0.72	0.60
1	TF-IDF + Logistic Regression	0.77	0.64

2	BERT + Logistic Regression	0.71	0.62
3	BERT + MLP	0.75	0.66

	Positive Precision	Accuracy	Weighted F1-score
0	0.74	0.69	0.69
1	0.82	0.74	0.75
2	0.76	0.70	0.70
3	0.79	0.74	0.74

1.6 Conclusion:

The TF-IDF + Logistic Regression model stands out as the best trade-off between simplicity and performance, while BERT-based models offer competitive results, especially for Positive sentiment detection. Naive Bayes, though simple, lags behind in all metrics.

1.7 Future work

Maybe we can try using TF-IDF + MLP, to see if we can get a better results.