#EE P 596: Advanced Introduction to Machine Learning

#Project 3 Twitter Emotion Prediction

Predict the emotion of the given tweet.

###Team Kaggle Name:

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####TA - Ayush Singh

####Grader - Fatwir SM

Final Due Date March 15th by 11:59pm

Part 1

Due March 12th by 11:59pm

####Submit your solutions for parts 1, 2, 4 and 10 for this. You also need to make submissions to both the Kaggle competitions as a part of this submission. You can make updates on these submissions in the final submission as well.

Mini-Project Overview

In this mini-project, you have a dataset of English Twitter messages and would first have to learn and make predictions about the emotion in those tweets. There are 6 emotion labels present - anger, fear, joy, love, sadness, and surprise.

The data fields in the dataset are:

1. text: a string feature.

###2. label: a classification label, with possible values including sadness (0), joy (1), love (2), anger (3), fear (4), surprise (5).

The first Kaggle competition requires you to make predictions on the labels given above.

###The second Kaggle competition has similar string and a set of possible emotions stored as a list. You can use your previous model trained for the first kaggle competition as a starting point for the second task. Zero-shot setting refers to emotions the model hasn't seen before and make predictions on it. E.g. "Morose". You would have to have the model pick from one of the input emotions amongst it.

Submission Guidelines

- * You get to work in teams of 2 for the Kaggle and modeling piece!! Please make sure each person of the team gets to work on all aspects of the mini-project and mention at the top of your report the contributions from each person.
- * The submission is in 2 parts.
- * Code: Please submit a Jupyter/IPython notebook file, report and Kaggle predictions as part of your submission. You can start with the template notebook provided and add in your solutions to it.
- * Report: The report should be in a pdf format and have plots, correlation matrices and tables added in as mentioned in the Heart Rate Deliverables below. Feel free to use either latex or word for creating it. Include answers to conceptual questions, and your insights as well. Ideally you should NOT use comments in ipynb to answer any conceptual question.
- * Kaggle Contest: There are a couple of Kaggle competitions, where you submit predictions on "held out" data sets.

Dataset Description

##Files

- * Local dataset can be found on Canvas.
- * Kaggle1 Dataset the test set
- * sample_submission.csv a sample submission file in the correct format

##Columns of submission

- * index a list from 0 to 2000, corresponding to the index in the kaggle text dataset.
- * labels predicted labels for the given index rows.

Twitter Emotion Deliverables

- 1. Basics and Visualization: Load the local dataset. Briefly explain the format in which the dataset is stored. Show the number of data points for each emotion in the test data set. (20 points)
- 2. Logistic Regression: Tokenize the given sentences. You can use any library for tokenization. Then use a Logistic Regression model for prediction. (30 points)
- 3. LSTM: Use a LSTM model for the given prediction task. (40 points)
- 4. Transformer-based: Use a Transformer-based model for the task of fine-tuning on the emotions data set. Briefly explain why you chose the given architecture and how was the model pre-trained (if it was)? You can get started with Hugging Face models for this An example notebook is already part of the lecture materials (huggingface.co) (40 points)
- 5. Insights: What insights did you gain by working on this data set? What are the pros/cons of each ML model? Describe your thought process as well in the choices you made as you set up the machine learning pipeline. Also mention how you took care of over-fitting if any. (15 points)
- 6. Tabular Results: Compare the 3 models earlier in a tabular format (table) on the standard metrics for classification f1-score, precision, recall. (5 points)
- 7. Scalability: If you had to scale your model to a million training data points, which of the models would you pick, what bottlenecks would you face and present a rough idea on how you would scale? (10 points)
- 8. Plot the curves of training, validation and test sets losses and accuracy scores with number of epochs on the x-axis for the model which gave the best metrics. Show a table in which rows are the algorithms/models used and having Precision, Recall and F1-score as metrics. (15 points)
- 9. Interpretability Print/plot examples of tweets that were misclassified by your best model (False positives and also False negatives). Are the given labels correct? Why do you think the model might have done a mis-classification here? (10 points)
- 10. As mentioned in the overview, for the second Kaggle competition, come up with an algorithm to make predictions on it. (HINT: You might want to use word similarity models to find similar emotions to the predicted one.) Clearly describe your approach in the writeup. (40 points)
- 11. Kaggle submission (1st 5 points + 2nd 10 points)
 - 1. $\lceil \sqrt{} \rceil$

```
2. \lceil \sqrt{} \rceil
```

- 3. $\lceil \sqrt{\rceil}$
- 4. $[\sqrt{\ }]$
- 5. [-]
- 6. [-]
- 7. [-]
- 8. [-]
- 9. [-]
- 10. [-]
- 11. [-]

Loading the Libararies

Import the required libraries

```
!pip install transformers
!pip install accelerate
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Collecting transformers
  Downloading transformers-4.26.1-py3-none-any.whl (6.3 MB)
                                  ----- 6.3/6.3 MB 51.8 MB/s eta
0:00:00
ent already satisfied: numpy>=1.17 in /usr/local/lib/python3.9/dist-
packages (from transformers) (1.24.2)
Requirement already satisfied: filelock in
/usr/local/lib/python3.9/dist-packages (from transformers) (3.9.0)
Requirement already satisfied: requests in
/usr/local/lib/python3.9/dist-packages (from transformers) (2.25.1)
Collecting tokenizers!=0.11.3,<0.14,>=0.11.1
  Downloading tokenizers-0.13.2-cp39-cp39-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl (7.6 MB)
                                    ---- 7.6/7.6 MB 87.5 MB/s eta
0:00:00
ent already satisfied: packaging>=20.0 in
/usr/local/lib/python3.9/dist-packages (from transformers) (23.0)
Requirement already satisfied: tgdm>=4.27 in
/usr/local/lib/python3.9/dist-packages (from transformers) (4.65.0)
Requirement already satisfied: pyyaml>=5.1 in
/usr/local/lib/python3.9/dist-packages (from transformers) (6.0)
Collecting huggingface-hub<1.0,>=0.11.0
  Downloading huggingface hub-0.13.2-py3-none-any.whl (199 kB)
                               ------ 199.2/199.2 KB 19.7 MB/s eta
0:00:00
ent already satisfied: regex!=2019.12.17 in
/usr/local/lib/python3.9/dist-packages (from transformers) (2022.6.2)
Requirement already satisfied: typing-extensions>=3.7.4.3 in
```

```
/usr/local/lib/python3.9/dist-packages (from huggingface-
hub<1.0,>=0.11.0->transformers) (4.5.0)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(1.26.15)
Requirement already satisfied: idna<3,>=2.5 in
/usr/local/lib/python3.9/dist-packages (from reguests->transformers)
(2.10)
Requirement already satisfied: chardet<5,>=3.0.2 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(2022.12.7)
Installing collected packages: tokenizers, huggingface-hub,
transformers
Successfully installed huggingface-hub-0.13.2 tokenizers-0.13.2
transformers-4.26.1
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Collecting accelerate
 Downloading accelerate-0.17.1-py3-none-any.whl (212 kB)
                                   ---- 212.8/212.8 KB 6.3 MB/s eta
0:00:00
ent already satisfied: torch>=1.4.0 in /usr/local/lib/python3.9/dist-
packages (from accelerate) (1.13.1+cul16)
Requirement already satisfied: psutil in
/usr/local/lib/python3.9/dist-packages (from accelerate) (5.4.8)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.9/dist-packages (from accelerate) (23.0)
Requirement already satisfied: pyyaml in
/usr/local/lib/python3.9/dist-packages (from accelerate) (6.0)
Requirement already satisfied: numpy>=1.17 in
/usr/local/lib/python3.9/dist-packages (from accelerate) (1.24.2)
Requirement already satisfied: typing-extensions in
/usr/local/lib/python3.9/dist-packages (from torch>=1.4.0->accelerate)
(4.5.0)
Installing collected packages: accelerate
Successfully installed accelerate-0.17.1
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
from sklearn.model selection import train test split
```

```
import nltk
from nltk.corpus import stopwords
import string
from sklearn.feature extraction.text import CountVectorizer
from sklearn.linear model import LogisticRegression
from sklearn.ensemble import RandomForestClassifier
from sklearn.model selection import GridSearchCV
from sklearn.metrics import classification report, confusion matrix,
accuracy score, ConfusionMatrixDisplay
nltk.download('omw-1.4')
from nltk.corpus import stopwords
from nltk.tokenize import word tokenize
nltk.download('stopwords')
nltk.download('punkt')
[nltk data] Downloading package omw-1.4 to /root/nltk data...
[nltk data] Downloading package stopwords to /root/nltk data...
              Package stopwords is already up-to-date!
[nltk data]
[nltk data] Downloading package punkt to /root/nltk data...
[nltk data]
              Package punkt is already up-to-date!
True
from google.colab import drive
drive.mount('/content/drive')
Mounted at /content/drive
Exercise 1
# Loading the dataset
def data loader(file path):
 df = pd.read csv(file path)
  return display(df), display(df.shape)
Applying the data loader to all the datasets:
# Using the data loader function to show the dataset and shape
# Test Dataset 1
print('Training Dataset:')
data loader('/content/Kaggle1 Dataset.csv')
print('Training Dataset 1 & Test Dataset 1 Submission Example:')
data loader('/content/kaggle1 sample submission.csv')
print()
```

```
print('Test Dataset 2:')
# Using the data loader function to show the dataset and shape
# Test Dataset 2 ?
# Based on this dataset maybe BERT or RoBERTa or EmoReact or EmoBERT?
data loader('/content/Kaggle2 Dataset.csv')
print()
print('Training Dataset 1 & Test Dataset 2 Submission Example:')
# Using the data loader function to show the dataset and shape
# Submission and Solutions Example
# Based on this dataset maybe BERT or RoBERTa or EmoReact or EmoBERT?
data loader('/content/kaggle2 sample solutions.csv')
Training Dataset:
      index
                                                           text
0
            im feeling quite sad and sorry for myself but ...
1
             i feel like i am still looking at a blank canv...
                                i feel like a faithful servant
3
          3
                             i am just feeling cranky and blue
4
          4
            i can have for a treat or if i am feeling festive
1995
       1995
             im having ssa examination tomorrow in the morn...
1996
       1996
             i constantly worry about their fight against n...
1997
       1997
             i feel its important to share this info for th...
             i truly feel that if you are passionate enough...
1998
       1998
1999
       1999 i feel like i just wanna buy any cute make up ...
[2000 rows x 2 columns]
(2000, 2)
Training Dataset 1 & Test Dataset 1 Submission Example:
            labels
      index
0
          0
                  0
1
          1
                  0
2
          2
                  0
3
          3
                  0
4
          4
                  0
```

```
[2000 rows x 2 columns]
(2000, 2)
```

1995

1996

1997

1998

1999

0

0

0

0

0

1995

1996

1997

1998

1999

```
Test Dataset 2:
       index
                                                                          text \
0
                im feeling rather rotten so im not very ambiti...
                           im updating my blog because i feel shitty
1
            1
2
                i never make her separate from me because i do...
3
                i left with my bouquet of red and yellow tulip...
4
            4
                   i was feeling a little vain when i did this one
1995
         1995
                i just keep feeling like someone is being unki...
1996
         1996
                im feeling a little cranky negative after this...
1997
        1997
                i feel that i am useful to my people and that ...
        1998
                im feeling more comfortable with derby i feel ...
1998
1999
        1999
                i feel all weird when i have to meet w people ...
                                                possible emotions
       ['alarm', 'exasperation', 'terror', 'tendernes...
       ['shock', 'jubilation', 'shock', 'fright', 'fr...
['panic', 'shock', 'exultation', 'fright', 'jo...
1
2
       ['attachment', 'annoyance', 'exasperation', 'i...
['tenderness', 'tenderness', 'exultation', 'tr...
3
4
1995
       ['jubilation', 'fondness', 'depression', 'stag...
       ['alarm', 'warmth', 'tenderness', 'depression'...
['sorrow', 'fright', 'intimacy', 'stun', 'depr...
['depression', 'stun', 'warmth', 'annoyance', ...
['shock', 'vexation', 'warmth', 'unhappiness',...
1996
1998
1999
[2000 rows x 3 columns]
(2000, 3)
Training Dataset 1 & Test Dataset 2 Submission Example:
       index labels
0
            0 rearet
1
            1 regret
2
            2 regret
```

```
3
          3 regret
4
          4
            regret
                 . . .
1995
       1995
             regret
1996
       1996
             regret
1997
       1997
              regret
       1998
1998
             regret
1999
       1999
             regret
[2000 rows x 2 columns]
```

```
(2000, 2)
(None, None)
```

As we can see, the dataset has two columns: a text column and a label column. The text column contains a collection of tweets, and the label column contains integers ranging from 0 to 5, where each integer represents an emotion. sadness (0), joy (1), love (2), anger (3), fear (4), surprise (5).

```
import pandas as pd
def visualize(df):
    df = pd.read csv(df)
    print(df.columns)
    emotions = df['label'].value counts()
    # Counting every data point and saving it as a series
    emotions.plot(kind='bar')
    plt.title('Showcasing the Data Points for Each Emotion')
    plt.xlabel('Emotion')
    plt.ylabel('Number of Data Points')
    # Assigning each data point to its corresponding Label
    dict_labels = {0: 'Sadness', 1: 'Joy', 2: 'Love', 3: 'Anger', 4:
'Fear', \overline{5}: 'Surprise'}
    plt.xticks(emotions.index, emotions.index.map(dict labels),
rotation=0)
    label_counts = {dict_labels[k]: v for k, v in emotions.items()}
    plt.show()
    return label counts
df = '/content/Local Dataset.csv'
visualize(df)
Index(['text', 'label'], dtype='object')
```

Showcasing the Data Points for Each Emotion 5000 4000 1000

Love

Anger

Emotion

Fear

Surprise

```
{'Joy': 5362,
 'Sadness': 4666,
 'Anger': 2159,
 'Fear': 1937,
 'Love': 1304,
 'Surprise': 572}
df = pd.read csv(df)
df['label'].value_counts()
1
     5362
0
     4666
3
     2159
4
     1937
2
     1304
5
      572
Name: label, dtype: int64
```

Sadness

Joy

Exercise 2

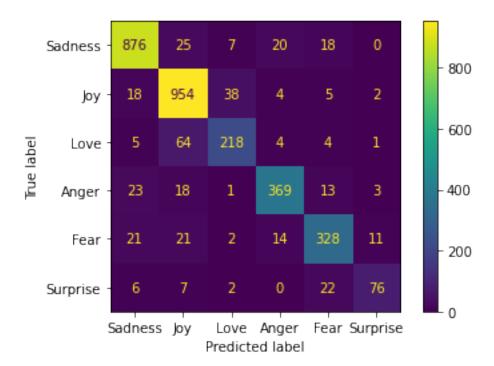
```
df =
pd.read_csv('/content/drive/MyDrive/Intro2AdvancedML/TwitterSentimentP
roject/TwitterSentiment.csv')
df.dtypes

text    object
label    int64
dtype: object
```

Logistic Regression and Vetroization with limited Metrics and no iterational limit without Preprocessing

```
Accuracy: 0.8815625
from sklearn.model_selection import train test split
from sklearn.linear model import LogisticRegression
from sklearn.feature extraction.text import CountVectorizer
from sklearn.metrics import accuracy score, classification report,
confusion matrix, precision score, recall score, fl score,
roc auc score
def tokenize(df):
    # CountVectorizer object to tokenize the tweets
    # from the 'text' column
    # fitting it to the 'text' column
    cv = CountVectorizer()
    df = pd.read csv('/content/Local Dataset.csv')
    # Converting the 'text' from object to string
    df['text'] = df['text'].astype(str)
    cv.fit(df['text'])
    tokenized = cv.transform(df['text'])
    # Return a list of tokenized tweets.
    return tokenized
# Tokenize the tweets
tokenized df = tokenize(df)
def LR(df):
    X = tokenize(df)
    v = df['label']
    X train, X test, y train, y test = train test split(X, y,
test size=0.2, random state=42)
    \overline{lr} = LogisticRegression()
    lr.fit(X train, y train)
    y pred = lr.predict(X test)
    accuracy = accuracy score(y test, y pred)
    print('Accuracy:', accuracy)
    print(classification report(y test, y pred))
    print()
    print('Confusion Matrix: \n')
    cf_matrix = confusion_matrix(y_test, y_pred)
    cm display = ConfusionMatrixDisplay(confusion matrix=cf matrix,
display labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
```

```
'Surprise'l)
    cm display.plot()
    plt.show()
    print()
    print('Accuracy: ', accuracy score(y test, y pred))
    # For the Tabular Table
    return y pred, y test
y pred, y test = LR(df)
/usr/local/lib/python3.9/dist-packages/sklearn/linear model/
logistic.py:458: ConvergenceWarning: lbfgs failed to converge
(status=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
Increase the number of iterations (max iter) or scale the data as
shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:
https://scikit-learn.org/stable/modules/linear model.html#logistic-
regression
  n iter i = check optimize result(
Accuracy: 0.8815625
              precision
                           recall f1-score
                                               support
           0
                   0.92
                             0.93
                                        0.92
                                                   946
                             0.93
                                        0.90
                                                  1021
           1
                   0.88
           2
                   0.81
                             0.74
                                        0.77
                                                   296
           3
                   0.90
                             0.86
                                        0.88
                                                   427
                   0.84
           4
                                                   397
                             0.83
                                        0.83
           5
                   0.82
                             0.67
                                       0.74
                                                   113
                                        0.88
                                                  3200
    accuracy
                   0.86
                             0.83
                                        0.84
                                                  3200
   macro avg
weighted avg
                   0.88
                             0.88
                                        0.88
                                                  3200
```



Accuracy: 0.8815625

Logistic Regression and Vetroization with limited Metrics and no iterational limit with Preprocessing

```
Accuracy: 0.8921875
!pip uninstall nltk
!pip install nltk
import nltk
nltk.download('omw-1.4')
Found existing installation: nltk 3.7
Uninstalling nltk-3.7:
 Would remove:
    /usr/local/bin/nltk
    /usr/local/lib/python3.9/dist-packages/nltk-3.7.dist-info/*
    /usr/local/lib/python3.9/dist-packages/nltk/*
Proceed (Y/n)? Y
  Successfully uninstalled nltk-3.7
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Collecting nltk
  Downloading nltk-3.8.1-py3-none-any.whl (1.5 MB)
                                      -- 1.5/1.5 MB 21.1 MB/s eta
0:00:00
ent already satisfied: regex>=2021.8.3 in
/usr/local/lib/python3.9/dist-packages (from nltk) (2022.6.2)
Requirement already satisfied: tqdm in /usr/local/lib/python3.9/dist-
```

```
packages (from nltk) (4.65.0)
Requirement already satisfied: click in /usr/local/lib/python3.9/dist-
packages (from nltk) (8.1.3)
Requirement already satisfied: joblib in
/usr/local/lib/python3.9/dist-packages (from nltk) (1.1.1)
Installing collected packages: nltk
Successfully installed nltk-3.8.1
{"pip warning":{"packages":["nltk"]}}
[nltk data] Downloading package omw-1.4 to /root/nltk data...
True
import pandas as pd
import nltk
from nltk.stem import WordNetLemmatizer
from nltk.corpus import stopwords
from nltk.stem import WordNetLemmatizer
import string
nltk.download('stopwords')
nltk.download('wordnet')
# Defining stopwords and lemmatizer
stopwords = set(stopwords.words('english'))
lemmatizer = WordNetLemmatizer()
def text processing(text):
#Convert to lowercase
#Remove punctuation
#Tokenize the text
#Remove stopwords
#Lemmatize the tokens
    text = text.lower()
    text = text.translate(str.maketrans('', '', string.punctuation))
    tokens = text.split()
    tokens = [token for token in tokens if token not in stopwords]
    tokens = [lemmatizer.lemmatize(token) for token in tokens]
    text = ' '.join(tokens)
    return text
```

```
df['text'] = df['text'].apply(text processing)
# Define function to tokenize tweets
def tokenize(df):
   # CountVectorizer object to tokenize the tweets
    # from the 'text' column
    # fitting it to the 'text' column
    cv = CountVectorizer()
    # Converting the 'text' from object to string
    df['text'] = df['text'].astype(str)
    cv.fit(df['text'])
    tokenized = cv.transform(df['text'])
    # Return a list of tokenized tweets.
    return tokenized
# Define function to train logistic regression model
def LR(df):
    X = tokenize(df)
    y = df['label']
    X_train, X_test, y_train, y_test = train_test_split(X, y,
test size=0.2, random state=42)
    \overline{l}r = LogisticRegression()
    lr.fit(X train, y train)
    y pred = lr.predict(X test)
    accuracy = accuracy_score(y_test, y_pred)
    print('Accuracy:', accuracy)
    print(classification report(y test, y pred))
    print()
    print('Confusion Matrix: \n')
    cf_matrix = confusion_matrix(y_test, y_pred)
    cm display = ConfusionMatrixDisplay(confusion matrix=cf matrix,
display labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
'Surprise'])
    cm display.plot()
    plt.show()
    print()
    print('Accuracy: ', accuracy_score(y_test, y_pred))
    # For the Tabular Table
    return y pred, y test
# Train and evaluate the logistic regression model
LR(df)
```

[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Package stopwords is already up-to-date!
[nltk_data] Downloading package wordnet to /root/nltk_data...
[nltk_data] Package wordnet is already up-to-date!
/usr/local/lib/python3.9/dist-packages/sklearn/linear_model/_logistic.
py:458: ConvergenceWarning: lbfgs failed to converge (status=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in:

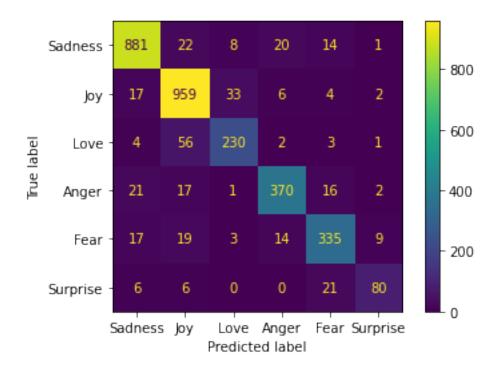
https://scikit-learn.org/stable/modules/preprocessing.html Please also refer to the documentation for alternative solver options:

https://scikit-learn.org/stable/modules/linear_model.html#logisticregression

n iter i = check optimize result(

Accuracy: 0.8921875

	precision	recall	f1-score	support
0 1 2 3 4 5	0.93 0.89 0.84 0.90 0.85 0.84	0.93 0.94 0.78 0.87 0.84 0.71	0.93 0.91 0.81 0.88 0.85 0.77	946 1021 296 427 397 113
accuracy macro avg weighted avg	0.87 0.89	0.84 0.89	0.89 0.86 0.89	3200 3200 3200



```
Accuracy:
           0.8921875
(array([0, 1, 0, ..., 1, 1, 0]), 8756
                                             0
 4660
 6095
          0
 304
          1
8241
          0
 15578
          1
 5746
          1
 6395
          1
 7624
          1
 15245
          0
Name: label, Length: 3200, dtype: int64)
```

Logistic Regression and tokenization with a limit on iterations and Macro Metrics without Preprocessing

Accuracy: 0.8815625

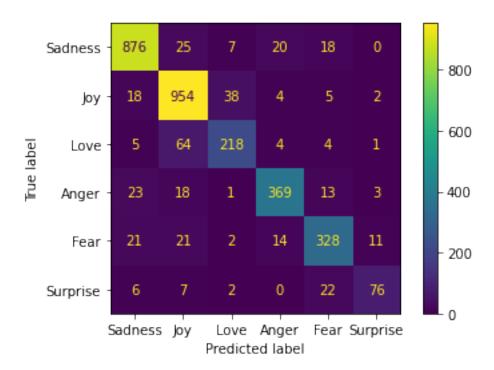
```
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.metrics import accuracy_score, classification_report,
confusion_matrix, precision_score, recall_score, f1_score,
roc_auc_score
from sklearn.metrics import precision_recall_curve
def tokenize(df):
```

```
# CountVectorizer object to tokenize the tweets
    # from the 'text' column
    # fitting it to the 'text' column
    cv = CountVectorizer()
    # Converting the 'text' from object to string
    df['text'] = df['text'].astype(str)
    cv.fit(df['text'])
    tokenized = cv.transform(df['text'])
    # Return a list of tokenized tweets.
    return tokenized
# Tokenize the tweets
df = pd.read csv('/content/Local Dataset.csv')
test df = pd.read csv('/content/Kaggle1 Dataset.csv')
tokenized df = tokenize(df)
# To test the model on a tokenized test dataset
tokenized kaggle = tokenize(test df)
https://scikit-learn.org/stable/modules/generated/sklearn.preprocessin
g.LabelBinarizer.html
from sklearn.preprocessing import LabelBinarizer
def LR(df, max iter=2000):
    X = tokenized df
    y = df['label']
#----
# Train Test Split using the fitting with Logistic Regression
    X train, X test, y train, y test = train test split(X, y,
test size=0.2, random state=42)
    lr = LogisticRegression()
    lr.fit(X train, y train)
#----
    y pred = lr.predict(X test)
    lb = LabelBinarizer()
    lb.fit(y_test)
    test labels = lb.transform(y test)
   test_predictions = lb.transform(y pred)
---#
    accuracy = accuracy score(y test, y pred)
    precision_macro = precision_score(y_test, y_pred, average='macro')
```

```
recall_macro = recall_score(y_test, y_pred, average='macro')
    f1_macro = f1_score(y_test, y_pred, average='macro')
    auc_macro = roc_auc_score(test_labels, test_predictions,
average='macro', multi class='ovo')
---#
    print('Accuracy:', accuracy)
    print(classification report(y test, y pred))
    print()
    print('Confusion Matrix: \n')
    cf matrix = confusion matrix(y test, y pred)
    cm display = ConfusionMatrixDisplay(confusion matrix=cf matrix,
display labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
'Surprise'l)
    cm display.plot()
    plt.show()
    print()
    print('Macro Precision:', precision macro)
    print('Macro Recall:', recall_macro)
    print('Macro F1-score:', f1 macro)
    print('Macro AUC:', auc_macro)
LR(df, max iter=2000)
/usr/local/lib/python3.9/dist-packages/sklearn/linear model/
logistic.py:458: ConvergenceWarning: lbfgs failed to converge
(status=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
Increase the number of iterations (max iter) or scale the data as
shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:
https://scikit-learn.org/stable/modules/linear model.html#logistic-
regression
  n iter i = check optimize result(
Accuracy: 0.8815625
              precision recall f1-score
                                              support
                   0.92
                             0.93
                                       0.92
                                                  946
           1
                   0.88
                             0.93
                                       0.90
                                                 1021
           2
                   0.81
                             0.74
                                       0.77
                                                  296
           3
                   0.90
                             0.86
                                       0.88
                                                  427
           4
                   0.84
                             0.83
                                       0.83
                                                  397
           5
                   0.82
                             0.67
                                       0.74
                                                  113
```

accuracy			0.88	3200
macro avg	0.86	0.83	0.84	3200
weighted avg	0.88	0.88	0.88	3200

Confusion Matrix:



Macro Precision: 0.8614304963046783 Macro Recall: 0.826633373173518 Macro F1-score: 0.8423217917067366 Macro AUC: 0.9004557117676595

Logistic Regression and tokenization with a limit on iterations and Macro Metrics with Preprocessing

```
Accuracy: 0.8915625
!pip uninstall nltk
!pip install nltk
import nltk
nltk.download('omw-1.4')

Found existing installation: nltk 3.8.1
Uninstalling nltk-3.8.1:
   Would remove:
      /usr/local/bin/nltk
      /usr/local/lib/python3.9/dist-packages/nltk-3.8.1.dist-info/*
      /usr/local/lib/python3.9/dist-packages/nltk/*
```

```
Proceed (Y/n)? Y
  Successfully uninstalled nltk-3.8.1
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Collecting nltk
  Using cached nltk-3.8.1-py3-none-any.whl (1.5 MB)
Requirement already satisfied: ioblib in
/usr/local/lib/python3.9/dist-packages (from nltk) (1.1.1)
Requirement already satisfied: regex>=2021.8.3 in
/usr/local/lib/python3.9/dist-packages (from nltk) (2022.6.2)
Requirement already satisfied: tqdm in /usr/local/lib/python3.9/dist-
packages (from nltk) (4.65.0)
Requirement already satisfied: click in /usr/local/lib/python3.9/dist-
packages (from nltk) (8.1.3)
Installing collected packages: nltk
Successfully installed nltk-3.8.1
{"pip warning":{"packages":["nltk"]}}
[nltk data] Downloading package omw-1.4 to /root/nltk data...
[nltk data]
              Package omw-1.4 is already up-to-date!
True
from sklearn.model selection import train test split
from sklearn.linear model import LogisticRegression
from sklearn.feature extraction.text import CountVectorizer
from sklearn.metrics import accuracy score, classification report,
confusion matrix, precision score, recall score, f1 score,
roc auc score
from sklearn.metrics import precision recall curve
import pandas as pd
import nltk
from nltk.stem import WordNetLemmatizer
from nltk.corpus import stopwords
from nltk.stem import WordNetLemmatizer
import string
nltk.download('stopwords')
nltk.download('wordnet')
# Defining stopwords and lemmatizer
stopwords = set(stopwords.words('english'))
lemmatizer = WordNetLemmatizer()
def text processing(text):
```

```
#Convert to lowercase
#Remove punctuation
#Tokenize the text
#Remove stopwords
#Lemmatize the tokens
    text = text.lower()
    text = text.translate(str.maketrans('', '', string.punctuation))
    tokens = text.split()
    tokens = [token for token in tokens if token not in stopwords]
    tokens = [lemmatizer.lemmatize(token) for token in tokens]
    text = ' '.join(tokens)
    return text
df = pd.read csv('/content/Local Dataset.csv')
df['text'] = df['text'].apply(text_processing)
def tokenize(df):
    # CountVectorizer object to tokenize the tweets
    # from the 'text' column
    # fitting it to the 'text' column
    cv = CountVectorizer()
    # Converting the 'text' from object to string
    df['text'] = df['text'].astype(str)
    cv.fit(df['text'])
    tokenized = cv.transform(df['text'])
    # Return a list of tokenized tweets.
    return tokenized
# Tokenize and Preprocess the tweets
tokenized df = tokenize(df)
# To test the model on a tokenized test dataset
test df = pd.read csv('/content/Kaggle1 Dataset.csv')
test df['text'] = test df['text'].apply(text processing)
tokenized kaggle = tokenize(test df)
https://scikit-learn.org/stable/modules/generated/sklearn.preprocessin
g.LabelBinarizer.html
from sklearn.preprocessing import LabelBinarizer
```

```
def LR(df, max iter=2000):
    X = tokenized df
    v = df['label']
# Train Test Split using the fitting with Logistic Regression
    X_train, X_test, y_train, y_test = train_test_split(X, y,
test size=0.2, random state=42)
    lr = LogisticRegression()
    lr.fit(X train, y train)
    y pred = lr.predict(X test)
    lb = LabelBinarizer()
    lb.fit(y test)
    test_labels = lb.transform(y test)
    test predictions = lb.transform(y pred)
---#
    accuracy = accuracy_score(y_test, y_pred)
    precision_macro = precision_score(y_test, y_pred, average='macro')
    recall_macro = recall_score(y_test, y_pred, average='macro')
    f1_macro = f1_score(y_test, y_pred, average='macro')
    auc macro = roc auc score(test labels, test predictions,
average='macro', multi class='ovo')
---#
    print('Accuracy:', accuracy)
    print(classification report(y test, y pred))
    print()
    print('Confusion Matrix: \n')
    cf_matrix = confusion_matrix(y_test, y_pred)
    cm display = ConfusionMatrixDisplay(confusion matrix=cf matrix,
display_labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
'Surprise'])
    cm display.plot()
    plt.show()
    print()
    print('Macro Precision:', precision macro)
    print('Macro Recall:', recall_macro)
    print('Macro F1-score:', f1 macro)
    print('Macro AUC:', auc macro)
[nltk data] Downloading package stopwords to /root/nltk data...
             Package stopwords is already up-to-date!
[nltk data]
[nltk data] Downloading package wordnet to /root/nltk data...
[nltk data] Package wordnet is already up-to-date!
```

LR(df, max_iter=2000)

/usr/local/lib/python3.9/dist-packages/sklearn/linear_model/
_logistic.py:458: ConvergenceWarning: lbfgs failed to converge
(status=1):

STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in:

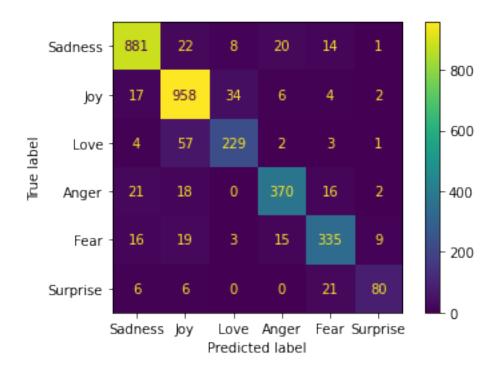
https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:

https://scikit-learn.org/stable/modules/linear_model.html#logisticregression

n iter i = check optimize result(

Accuracy: 0.8915625

•	precision	recall	f1-score	support
0 1 2 3 4 5	0.93 0.89 0.84 0.90 0.85 0.84	0.93 0.94 0.77 0.87 0.84	0.93 0.91 0.80 0.88 0.85	946 1021 296 427 397 113
accuracy macro avg weighted avg	0.87 0.89	0.84 0.89	0.89 0.86 0.89	3200 3200 3200



Macro Precision: 0.87424748931107 Macro Recall: 0.8435896555766926 Macro F1-score: 0.8575870009744162

Macro AUC: 0.9100501033399157

A Article on Macro and Micro Metrics

https://medium.com/@ramit.singh.pahwa/micro-macro-precision-recall-and-f-score-44439 de 1a044

Distilbert-base-uncased-emotion is a model fine-tuned for detecting emotions in texts, including sadness, joy, love, anger, fear and surprise.

Resource: https://huggingface.co/blog/sentiment-analysis-python

Exercise 3

LSTM Model

Kaggle Score 0.8945

https://keras.io/api/layers/recurrent_layers/lstm/

https://keras.io/api/preprocessing/text/#tokenizer-class

!pip install --upgrade keras tensorflow

!pip install -U scikit-learn

```
!pip install -U keras
!pip install -U tensorflow
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: keras in /usr/local/lib/python3.8/dist-
packages (2.11.0)
Requirement already satisfied: tensorflow in
/usr/local/lib/python3.8/dist-packages (2.11.0)
Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.23.1 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (0.31.0)
Requirement already satisfied: wrapt>=1.11.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.15.0)
Requirement already satisfied: setuptools in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (57.4.0)
Requirement already satisfied: opt-einsum>=2.3.2 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (3.3.0)
Requirement already satisfied: tensorboard<2.12,>=2.11 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (2.11.2)
Requirement already satisfied: termcolor>=1.1.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (2.2.0)
Requirement already satisfied: absl-py>=1.0.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.4.0)
Requirement already satisfied: gast<=0.4.0,>=0.2.1 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (0.4.0)
Requirement already satisfied: grpcio<2.0,>=1.24.3 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.51.3)
Requirement already satisfied: protobuf<3.20,>=3.9.2 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (3.19.6)
Requirement already satisfied: packaging in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (23.0)
Requirement already satisfied: libclang>=13.0.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (15.0.6.1)
Requirement already satisfied: six>=1.12.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.15.0)
Requirement already satisfied: h5py>=2.9.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (3.1.0)
Requirement already satisfied: astunparse>=1.6.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.6.3)
Requirement already satisfied: typing-extensions>=3.6.6 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (4.5.0)
Requirement already satisfied: tensorflow-estimator<2.12,>=2.11.0
in /usr/local/lib/python3.8/dist-packages (from tensorflow) (2.11.0)
Requirement already satisfied: google-pasta>=0.1.1 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (0.2.0)
Requirement already satisfied: numpy>=1.20 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.24.2)
Requirement already satisfied: flatbuffers>=2.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (23.1.21)
Requirement already satisfied: wheel<1.0,>=0.23.0 in
```

```
/usr/local/lib/python3.8/dist-packages (from astunparse>=1.6.0-
>tensorflow) (0.38.4)
Requirement already satisfied: werkzeug>=1.0.1 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (2.2.3)
Requirement already satisfied: markdown>=2.6.8 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (3.4.1)
Requirement already satisfied: tensorboard-plugin-wit>=1.6.0 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (1.8.1)
Requirement already satisfied: tensorboard-data-server<0.7.0,>=0.6.0
in /usr/local/lib/python3.8/dist-packages (from
tensorboard<2.12,>=2.11->tensorflow) (0.6.1)
Requirement already satisfied: requests<3,>=2.21.0 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (2.25.1)
Requirement already satisfied: google-auth<3,>=1.6.3 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (2.16.1)
Requirement already satisfied: google-auth-oauthlib<0.5,>=0.4.1 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (0.4.6)
Requirement already satisfied: pyasn1-modules>=0.2.1 in
/usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3-
>tensorboard<2.12,>=2.11->tensorflow) (0.2.8)
Requirement already satisfied: rsa<5,>=3.1.4 in
/usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3-
>tensorboard<2.12,>=2.11->tensorflow) (4.9)
Requirement already satisfied: cachetools<6.0,>=2.0.0 in
/usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3-
>tensorboard<2.12,>=2.11->tensorflow) (5.3.0)
Requirement already satisfied: requests-oauthlib>=0.7.0 in
/usr/local/lib/python3.8/dist-packages (from google-auth-
oauthlib<0.5,>=0.4.1->tensorboard<2.12,>=2.11->tensorflow) (1.3.1)
Requirement already satisfied: importlib-metadata>=4.4 in
/usr/local/lib/python3.8/dist-packages (from markdown>=2.6.8-
>tensorboard<2.12,>=2.11->tensorflow) (6.0.0)
Requirement already satisfied: idna<3,>=2.5 in
/usr/local/lib/python3.8/dist-packages (from reguests<3,>=2.21.0-
>tensorboard<2.12,>=2.11->tensorflow) (2.10)
Requirement already satisfied: chardet<5,>=3.0.2 in
/usr/local/lib/python3.8/dist-packages (from requests<3,>=2.21.0-
>tensorboard<2.12,>=2.11->tensorflow) (4.0.0)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/usr/local/lib/python3.8/dist-packages (from requests<3,>=2.21.0-
>tensorboard<2.12,>=2.11->tensorflow) (1.26.14)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.8/dist-packages (from reguests<3,>=2.21.0-
>tensorboard<2.12,>=2.11->tensorflow) (2022.12.7)
```

```
Requirement already satisfied: MarkupSafe>=2.1.1 in
/usr/local/lib/python3.8/dist-packages (from werkzeug>=1.0.1-
>tensorboard<2.12,>=2.11->tensorflow) (2.1.2)
Requirement already satisfied: zipp>=0.5 in
/usr/local/lib/python3.8/dist-packages (from importlib-metadata>=4.4-
>markdown>=2.6.8->tensorboard<2.12,>=2.11->tensorflow) (3.15.0)
Requirement already satisfied: pvasn1<0.5.0.>=0.4.6 in
/usr/local/lib/python3.8/dist-packages (from pyasn1-modules>=0.2.1-
>qoogle-auth<3,>=1.6.3->tensorboard<2.12,>=2.11->tensorflow) (0.4.8)
Requirement already satisfied: oauthlib>=3.0.0 in
/usr/local/lib/python3.8/dist-packages (from requests-oauthlib>=0.7.0-
>google-auth-oauthlib<0.5,>=0.4.1->tensorboard<2.12,>=2.11-
>tensorflow) (3.2.2)
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: scikit-learn in
/usr/local/lib/python3.8/dist-packages (1.2.1)
Requirement already satisfied: joblib>=1.1.1 in
/usr/local/lib/python3.8/dist-packages (from scikit-learn) (1.2.0)
Requirement already satisfied: numpy>=1.17.3 in
/usr/local/lib/python3.8/dist-packages (from scikit-learn) (1.24.2)
Requirement already satisfied: scipy>=1.3.2 in
/usr/local/lib/python3.8/dist-packages (from scikit-learn) (1.10.1)
Requirement already satisfied: threadpoolctl>=2.0.0 in
/usr/local/lib/python3.8/dist-packages (from scikit-learn) (3.1.0)
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: keras in /usr/local/lib/python3.8/dist-
packages (2.11.0)
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: tensorflow in
/usr/local/lib/python3.8/dist-packages (2.11.0)
Requirement already satisfied: tensorflow-estimator<2.12,>=2.11.0
in /usr/local/lib/python3.8/dist-packages (from tensorflow) (2.11.0)
Requirement already satisfied: libclang>=13.0.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (15.0.6.1)
Requirement already satisfied: packaging in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (23.0)
Requirement already satisfied: grpcio<2.0,>=1.24.3 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.51.3)
Requirement already satisfied: gast<=0.4.0,>=0.2.1 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (0.4.0)
Requirement already satisfied: keras<2.12,>=2.11.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (2.11.0)
Requirement already satisfied: protobuf<3.20,>=3.9.2 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (3.19.6)
Requirement already satisfied: tensorboard<2.12,>=2.11 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (2.11.2)
Requirement already satisfied: wrapt>=1.11.0 in
```

```
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.15.0)
Requirement already satisfied: absl-py>=1.0.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.4.0)
Requirement already satisfied: numpy>=1.20 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.24.2)
Requirement already satisfied: setuptools in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (57.4.0)
Requirement already satisfied: opt-einsum>=2.3.2 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (3.3.0)
Requirement already satisfied: typing-extensions>=3.6.6 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (4.5.0)
Requirement already satisfied: h5py>=2.9.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (3.1.0)
Requirement already satisfied: termcolor>=1.1.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (2.2.0)
Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.23.1 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (0.31.0)
Requirement already satisfied: google-pasta>=0.1.1 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (0.2.0)
Requirement already satisfied: flatbuffers>=2.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (23.1.21)
Requirement already satisfied: six>=1.12.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.15.0)
Requirement already satisfied: astunparse>=1.6.0 in
/usr/local/lib/python3.8/dist-packages (from tensorflow) (1.6.3)
Requirement already satisfied: wheel<1.0,>=0.23.0 in
/usr/local/lib/python3.8/dist-packages (from astunparse>=1.6.0-
>tensorflow) (0.38.4)
Requirement already satisfied: tensorboard-data-server<0.7.0,>=0.6.0
in /usr/local/lib/python3.8/dist-packages (from
tensorboard<2.12,>=2.11->tensorflow) (0.6.1)
Requirement already satisfied: werkzeug>=1.0.1 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (2.2.3)
Requirement already satisfied: markdown>=2.6.8 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (3.4.1)
Requirement already satisfied: google-auth<3,>=1.6.3 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (2.16.1)
Requirement already satisfied: tensorboard-plugin-wit>=1.6.0 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (1.8.1)
Requirement already satisfied: requests<3,>=2.21.0 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (2.25.1)
Requirement already satisfied: google-auth-oauthlib<0.5,>=0.4.1 in
/usr/local/lib/python3.8/dist-packages (from tensorboard<2.12,>=2.11-
>tensorflow) (0.4.6)
Requirement already satisfied: pyasn1-modules>=0.2.1 in
```

```
/usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3-
>tensorboard<2.12,>=2.11->tensorflow) (0.2.8)
Requirement already satisfied: cachetools<6.0,>=2.0.0 in
/usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3-
>tensorboard<2.12,>=2.11->tensorflow) (5.3.0)
Requirement already satisfied: rsa<5,>=3.1.4 in
/usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3-
>tensorboard<2.12,>=2.11->tensorflow) (4.9)
Requirement already satisfied: requests-oauthlib>=0.7.0 in
/usr/local/lib/python3.8/dist-packages (from google-auth-
oauthlib<0.5,>=0.4.1- tensorboard<2.12,>=2.11- tensorflow) (1.3.1)
Requirement already satisfied: importlib-metadata>=4.4 in
/usr/local/lib/python3.8/dist-packages (from markdown>=2.6.8-
>tensorboard<2.12,>=2.11->tensorflow) (6.0.0)
Requirement already satisfied: idna<3,>=2.5 in
/usr/local/lib/python3.8/dist-packages (from requests<3,>=2.21.0-
>tensorboard<2.12,>=2.11->tensorflow) (2.10)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/usr/local/lib/python3.8/dist-packages (from reguests<3,>=2.21.0-
>tensorboard<2.12.>=2.11->tensorflow) (1.26.14)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.8/dist-packages (from requests<3,>=2.21.0-
>tensorboard<2.12,>=2.11->tensorflow) (2022.12.7)
Requirement already satisfied: chardet<5,>=3.0.2 in
/usr/local/lib/python3.8/dist-packages (from reguests<3,>=2.21.0-
>tensorboard<2.12,>=2.11->tensorflow) (4.0.0)
Requirement already satisfied: MarkupSafe>=2.1.1 in
/usr/local/lib/python3.8/dist-packages (from werkzeug>=1.0.1-
>tensorboard<2.12,>=2.11->tensorflow) (2.1.2)
Requirement already satisfied: zipp>=0.5 in
/usr/local/lib/python3.8/dist-packages (from importlib-metadata>=4.4-
>markdown>=2.6.8->tensorboard<2.12,>=2.11->tensorflow) (3.15.0)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in
/usr/local/lib/python3.8/dist-packages (from pyasn1-modules>=0.2.1-
>qoogle-auth<3,>=1.6.3->tensorboard<2.12,>=2.11->tensorflow) (0.4.8)
Requirement already satisfied: oauthlib>=3.0.0 in
/usr/local/lib/python3.8/dist-packages (from requests-oauthlib>=0.7.0-
>google-auth-oauthlib<0.5,>=0.4.1->tensorboard<2.12,>=2.11-
>tensorflow) (3.2.2)
from tensorflow.keras.preprocessing.sequence import pad sequences
from sklearn.model selection import train test split
from sklearn.linear model import LogisticRegression
from sklearn.feature extraction.text import CountVectorizer
from sklearn.metrics import accuracy score, classification report,
confusion matrix, precision score, recall score, f1 score,
roc auc score
```

from tensorflow.keras.preprocessing.sequence import pad sequences

```
import pandas as pd
import numpy as np
from keras.preprocessing.text import Tokenizer
from keras.models import Sequential
from keras.layers import Embedding, LSTM, Dense
import nltk
from nltk.stem import WordNetLemmatizer
from nltk.corpus import stopwords
from nltk.stem import WordNetLemmatizer
import string
# Tokenizer: https://keras.io/api/preprocessing/text/
# Sequential model: https://keras.io/api/models/sequential/
# Embedding layer: https://keras.io/api/layers/core layers/embedding/
# LSTM layer: https://keras.io/api/layers/recurrent layers/lstm/
# Dense layer: https://keras.io/api/layers/core layers/dense/
# compile method:
https://keras.io/api/models/model training apis/#compile-method
# fit method: https://keras.io/api/models/model training apis/#fit-
method
# pad sequences function:
https://keras.io/api/preprocessing/timeseries/#pad sequences-function
----#
# load the training dataset
train data = pd.read csv('/content/Local Dataset.csv')
----#
nltk.download('stopwords')
nltk.download('wordnet')
# Defining stopwords and lemmatizer
stopwords = set(stopwords.words('english'))
lemmatizer = WordNetLemmatizer()
def text processing(text):
#Convert to lowercase
#Remove punctuation
#Tokenize the text
#Remove stopwords
#Lemmatize the tokens
   text = text.lower()
   text = text.translate(str.maketrans('', '', string.punctuation))
   tokens = text.split()
   tokens = [token for token in tokens if token not in stopwords]
   tokens = [lemmatizer.lemmatize(token) for token in tokens]
   text = ' '.join(tokens)
   return text
```

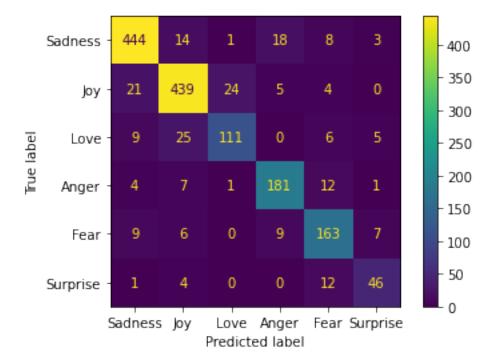
```
train data['text'] = train data['text'].apply(text processing)
----#
# tokenize the text data
tokenizer = Tokenizer()
tokenizer.fit on texts(train data['text'])
train seg = tokenizer.texts to seguences(train data['text'])
train pad seq = pad sequences(train seq, maxlen=50, padding='post')
----#
# create one-hot-encoded labels
train_labels = pd.get_dummies(train_data['label']).values
X_train, X_test, y_train, y_test = train_test_split(train_pad_seq,
train labels, test size=0.2, random state=42)
X_val, X_test, y_val, y_test = train_test_split(X_test, y_test,
test_size=0.5, random_state=42)
----#
# define the LSTM model
model = Sequential()
model.add(Embedding(len(tokenizer.word index)+1, 32, input length=50))
model.add(LSTM(64))
model.add(Dense(6, activation='softmax'))
----#
# compile the model
model.compile(optimizer='adam', loss='categorical crossentropy',
metrics=['accuracy'])
----#
# train the model
history = model.fit(X_train, y_train, validation_data = (X_val,
y val), epochs=50, batch size=64)
#-----
[nltk data] Downloading package stopwords to /root/nltk data...
[nltk data] Package stopwords is already up-to-date!
[nltk data] Downloading package wordnet to /root/nltk data...
[nltk data] Package wordnet is already up-to-date!
Epoch 1/50
- accuracy: 0.3288 - val loss: 1.5858 - val accuracy: 0.3300
Epoch 2/50
200/200 [============= ] - 5s 26ms/step - loss: 1.4266
- accuracy: 0.3666 - val loss: 1.2003 - val accuracy: 0.4194
Epoch 3/50
200/200 [============ ] - 5s 26ms/step - loss: 1.0910
```

```
- accuracy: 0.4389 - val loss: 1.1411 - val accuracy: 0.4444
Epoch 4/50
200/200 [============= ] - 5s 27ms/step - loss: 1.0118
- accuracy: 0.4562 - val_loss: 1.1493 - val accuracy: 0.4538
Epoch 5/50
- accuracy: 0.5540 - val loss: 1.0692 - val accuracy: 0.5450
Epoch 6/50
200/200 [============== ] - 5s 27ms/step - loss: 0.7474
- accuracy: 0.6919 - val loss: 0.9060 - val accuracy: 0.6787
Epoch 7/50
200/200 [============= ] - 5s 27ms/step - loss: 0.5856
- accuracy: 0.7673 - val loss: 0.7874 - val accuracy: 0.7331
Epoch 8/50
200/200 [============= ] - 5s 26ms/step - loss: 0.4708
- accuracy: 0.8296 - val loss: 0.7004 - val accuracy: 0.7569
Epoch 9/50
200/200 [============= ] - 5s 26ms/step - loss: 0.3997
- accuracy: 0.8664 - val loss: 0.7002 - val accuracy: 0.8094
Epoch 10/50
- accuracy: 0.8941 - val loss: 0.7847 - val accuracy: 0.7706
Epoch 11/50
- accuracy: 0.7641 - val loss: 1.2795 - val accuracy: 0.5069
Epoch 12/50
- accuracy: 0.5864 - val loss: 1.0297 - val accuracy: 0.6350
Epoch 13/50
200/200 [============= ] - 5s 26ms/step - loss: 0.5810
- accuracy: 0.8258 - val loss: 0.6554 - val accuracy: 0.8194
Epoch 14/50
- accuracy: 0.9113 - val loss: 0.5283 - val accuracy: 0.8500
Epoch 15/50
- accuracy: 0.8931 - val loss: 0.5424 - val accuracy: 0.8356
Epoch 16/50
- accuracy: 0.9429 - val loss: 0.5119 - val accuracy: 0.8581
Epoch 17/50
- accuracy: 0.9607 - val loss: 0.5428 - val accuracy: 0.8556
Epoch 18/50
- accuracy: 0.9700 - val_loss: 0.4908 - val_accuracy: 0.8687
Epoch 19/50
- accuracy: 0.9722 - val loss: 0.5919 - val accuracy: 0.8425
Epoch 20/50
```

```
200/200 [============= ] - 5s 26ms/step - loss: 0.0858
- accuracy: 0.9773 - val loss: 0.5216 - val accuracy: 0.8637
Epoch 21/50
200/200 [===========] - 5s 27ms/step - loss: 0.0682
- accuracy: 0.9836 - val loss: 0.5241 - val accuracy: 0.8675
- accuracy: 0.9827 - val loss: 0.5568 - val accuracy: 0.8712
Epoch 23/50
200/200 [=============] - 5s 27ms/step - loss: 0.0600
- accuracy: 0.9849 - val loss: 0.5391 - val accuracy: 0.8675
Epoch 24/50
- accuracy: 0.9869 - val loss: 0.6156 - val accuracy: 0.8619
Epoch 25/50
- accuracy: 0.9874 - val loss: 0.5816 - val accuracy: 0.8700
Epoch 26/50
- accuracy: 0.9884 - val loss: 0.5993 - val accuracy: 0.8675
Epoch 27/50
- accuracy: 0.9891 - val loss: 0.5812 - val accuracy: 0.8681
Epoch 28/50
200/200 [============= ] - 5s 26ms/step - loss: 0.0460
- accuracy: 0.9885 - val loss: 0.6480 - val accuracy: 0.8562
Epoch 29/50
- accuracy: 0.9892 - val loss: 0.6391 - val accuracy: 0.8631
Epoch 30/50
- accuracy: 0.9889 - val loss: 0.6666 - val accuracy: 0.8619
Epoch 31/50
200/200 [============= ] - 5s 26ms/step - loss: 0.0480
- accuracy: 0.9864 - val loss: 0.5824 - val accuracy: 0.8694
Epoch 32/50
200/200 [============ ] - 5s 26ms/step - loss: 0.0388
- accuracy: 0.9897 - val loss: 0.6278 - val accuracy: 0.8644
Epoch 33/50
200/200 [============== ] - 5s 26ms/step - loss: 0.0301
- accuracy: 0.9920 - val loss: 0.6260 - val accuracy: 0.8662
Epoch 34/50
- accuracy: 0.9936 - val loss: 0.7248 - val accuracy: 0.8562
Epoch 35/50
200/200 [============= ] - 5s 26ms/step - loss: 0.0314
- accuracy: 0.9912 - val loss: 0.7015 - val accuracy: 0.8581
Epoch 36/50
200/200 [============= ] - 5s 26ms/step - loss: 0.0273
- accuracy: 0.9927 - val loss: 0.6931 - val accuracy: 0.8594
```

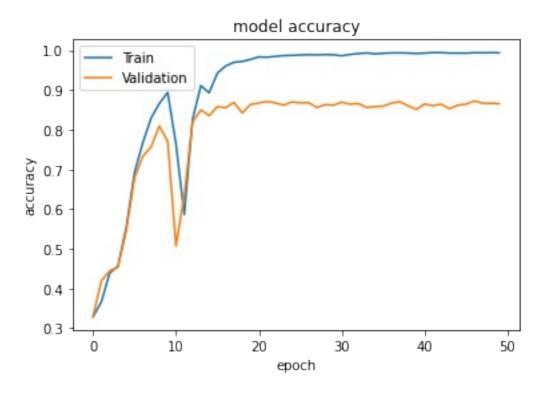
```
Epoch 37/50
- accuracy: 0.9937 - val loss: 0.6546 - val accuracy: 0.8669
Epoch 38/50
- accuracy: 0.9937 - val_loss: 0.6391 - val_accuracy: 0.8706
Epoch 39/50
200/200 [============] - 5s 27ms/step - loss: 0.0230
- accuracy: 0.9934 - val loss: 0.6883 - val accuracy: 0.8606
Epoch 40/50
- accuracy: 0.9921 - val loss: 0.7279 - val accuracy: 0.8512
Epoch 41/50
- accuracy: 0.9932 - val loss: 0.6964 - val accuracy: 0.8650
Epoch 42/50
- accuracy: 0.9945 - val_loss: 0.7517 - val_accuracy: 0.8606
Epoch 43/50
200/200 [=============== ] - 5s 26ms/step - loss: 0.0184
- accuracy: 0.9945 - val loss: 0.6957 - val accuracy: 0.8644
Epoch 44/50
200/200 [============] - 5s 26ms/step - loss: 0.0242
- accuracy: 0.9930 - val loss: 0.7289 - val accuracy: 0.8531
Epoch 45/50
- accuracy: 0.9933 - val_loss: 0.7349 - val_accuracy: 0.8619
Epoch 46/50
- accuracy: 0.9929 - val_loss: 0.7071 - val_accuracy: 0.8644
Epoch 47/50
- accuracy: 0.9943 - val loss: 0.7376 - val accuracy: 0.8725
Epoch 48/50
200/200 [============] - 5s 26ms/step - loss: 0.0192
- accuracy: 0.9938 - val loss: 0.7119 - val accuracy: 0.8669
Epoch 49/50
- accuracy: 0.9943 - val loss: 0.7461 - val accuracy: 0.8669
Epoch 50/50
- accuracy: 0.9938 - val loss: 0.7414 - val accuracy: 0.8656
# Test Set
pred = model.predict(X test)
test pred labels = np.argmax(pred, axis=1)
y_test = pd.DataFrame(y_test).idxmax(axis=1)
print(classification report(y test, test pred labels))
print()
```

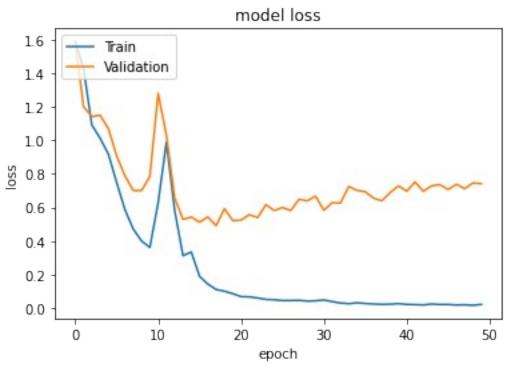
```
print('Confusion Matrix: \n')
cf matrix = confusion matrix(y test, test pred labels)
cm_display = ConfusionMatrixDisplay(confusion_matrix=cf_matrix,
display labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
'Surprise'])
cm display.plot()
plt.show()
print('Precision = ', precision score(y test, test pred labels,
average='macro'))
print('Recall = ', recall_score(y_test, test_pred_labels,
average='macro'))
print('F1 Score = ', f1 score(y test, test pred labels,
average='macro'))
50/50 [=======] - 1s 7ms/step
              precision
                           recall f1-score
                                              support
           0
                   0.91
                             0.91
                                       0.91
                                                  488
           1
                   0.89
                             0.89
                                       0.89
                                                  493
           2
                   0.81
                             0.71
                                       0.76
                                                  156
           3
                   0.85
                             0.88
                                       0.86
                                                  206
           4
                   0.80
                             0.84
                                       0.82
                                                  194
           5
                   0.74
                             0.73
                                       0.74
                                                   63
                                       0.86
                                                 1600
    accuracy
                   0.83
                             0.83
                                       0.83
                                                 1600
   macro avg
                   0.86
                             0.86
                                       0.86
                                                 1600
weighted avg
```



```
Precision = 0.8322910706418484
Recall = 0.8268077918295273
F1 Score = 0.8288639390718752
_ _ _ _ #
# load the test dataset
test data = pd.read csv('/content/Kaggle1 Dataset.csv')
----#
def text processing(text):
#Convert to lowercase
#Remove punctuation
#Tokenize the text
#Remove stopwords
#Lemmatize the tokens
   text = text.lower()
   text = text.translate(str.maketrans('', '', string.punctuation))
   tokens = text.split()
   tokens = [token for token in tokens if token not in stopwords]
   tokens = [lemmatizer.lemmatize(token) for token in tokens]
   text = ' '.join(tokens)
   return text
test data['text'] = test data['text'].apply(text processing)
# tokenize and pad the text data
test_seq = tokenizer.texts_to_sequences(test_data['text'])
test pad seq = pad sequences(test seq, maxlen=50, padding='post')
```

```
----#
# make predictions on test data
test_pred = model.predict(test_pad_seq)
----#
# save the predictions to a csv file
test pred labels = np.argmax(test pred, axis=1)
test_data['label'] = test_pred_labels
test data.to csv('test pred.csv', index=False)
63/63 [========= ] - 1s 7ms/step
def plotting nn():
 metric = "accuracy"
  plt.figure()
  # summarize history for accuracy
  plt.plot(history.history['accuracy'])
  plt.plot(history.history['val_accuracy'])
  plt.title('model accuracy')
  plt.ylabel('accuracy')
  plt.xlabel('epoch')
  plt.legend(['Train', 'Validation'], loc='upper left')
  plt.show()
  # summarize history for loss
  plt.plot(history.history['loss'])
  plt.plot(history.history['val loss'])
  plt.title('model loss')
  plt.ylabel('loss')
  plt.xlabel('epoch')
  plt.legend(['Train', 'Validation'], loc='upper left')
  plt.show()
  return plt.show()
plotting_nn()
```





Exercise 4

Transformer Distilbert base uncased emotion for Kaggle 1

```
Self contained
pip install transformers
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Collecting transformers
  Downloading transformers-4.27.1-py3-none-any.whl (6.7 MB)
                                      - 6.7/6.7 MB 50.3 MB/s eta
0:00:00
                                   —— 199.2/199.2 KB 23.7 MB/s eta
0:00:00
ent already satisfied: filelock in /usr/local/lib/python3.9/dist-
packages (from transformers) (3.9.0)
Requirement already satisfied: pyyaml>=5.1 in
/usr/local/lib/python3.9/dist-packages (from transformers) (6.0)
Collecting tokenizers!=0.11.3,<0.14,>=0.11.1
  Downloading tokenizers-0.13.2-cp39-cp39-
manylinux 2 17 x86 64.manylinux2014 x86 64.whl (7.6 MB)
                                     --- 7.6/7.6 MB 83.2 MB/s eta
0:00:00
ent already satisfied: tqdm>=4.27 in /usr/local/lib/python3.9/dist-
packages (from transformers) (4.65.0)
Requirement already satisfied: regex!=2019.12.17 in
/usr/local/lib/python3.9/dist-packages (from transformers) (2022.6.2)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.9/dist-packages (from transformers) (23.0)
Requirement already satisfied: requests in
/usr/local/lib/python3.9/dist-packages (from transformers) (2.25.1)
Requirement already satisfied: numpy>=1.17 in
/usr/local/lib/python3.9/dist-packages (from transformers) (1.24.2)
Requirement already satisfied: typing-extensions>=3.7.4.3 in
/usr/local/lib/python3.9/dist-packages (from huggingface-
hub<1.0.>=0.11.0->transformers) (4.5.0)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(1.26.15)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(2022.12.7)
Requirement already satisfied: chardet<5,>=3.0.2 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(4.0.0)
Requirement already satisfied: idna<3,>=2.5 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(2.10)
Installing collected packages: tokenizers, huggingface-hub,
```

```
transformers
Successfully installed huggingface-hub-0.13.2 tokenizers-0.13.2
transformers-4.27.1
from sklearn.metrics import classification report, confusion matrix,
accuracy score
from transformers import pipeline
import pandas as pd
https://huggingface.co/docs/transformers/main classes/pipelines#transf
ormers.pipeline
https://scikit-learn.org/stable/modules/generated/sklearn.metrics.clas
sification report.html
https://scikit-learn.org/stable/modules/generated/sklearn.metrics.conf
usion matrix.html
classifier = pipeline("text-classification",
                   model='bhadresh-savani/distilbert-base-uncased-
emotion',
tokenizer='distilbert-base-uncased')
# -----#
def transformer(df):
   # Applying it to the Text Column
   emotions = df['text'].apply(classifier)
# -----#
   # Extract the predicted emotion labels and scores
   predicted emotions = emotions.apply(lambda x: x[0]['label'])
   predicted scores = emotions.apply(lambda x: x[0]['score'])
# Combine the predicted emotion labels and scores into a dataframe
   df_predicted = pd.DataFrame({'text': df['text'],
                              'predicted emotion':
predicted emotions,
                             'predicted score': predicted scores})
   return df_predicted
----#
# The Datasets
labelinfo = {'sadness': 0, 'joy': 1, 'love': 2, 'anger': 3, 'fear': 4,
'surprise': 5}
train df = pd.read csv('/content/Local Dataset.csv')
for i, num in enumerate(train df['label']):
 for j in labelinfo:
   if labelinfo[j] == num:
     train df['label'].loc[i] = j
test df = pd.read csv('/content/Kaggle1 Dataset.csv')
X_train, X_test, y_train, y_test = train_test_split(train_df['text'],
train_df['label'], test_size=0.2, random state=42)
```

```
X val, X test, y val, y test = train test split(X test, y test,
test size=0.5, random state=42)
                -----#
<ipython-input-12-b4772fdde471>:32: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#
returning-a-view-versus-a-copy
 train df['label'].loc[i] = j
# Transform the datasets
# -----#
temp = X train.apply(classifier)
train pred = temp.apply(lambda x: x[0]['label'])
temp = X val.apply(classifier)
val pred = temp.apply(lambda x: x[0]['label'])
temp = X test.apply(classifier)
test pred = temp.apply(lambda x: x[0]['label'])
train df transformed = transformer(train df)
kaggle df transformed = transformer(test df)
# Metrics
def MetricReport(truth, pred):
 print("Training Classification Report: ")
 print(classification report(truth,
                            zero division=1))
  print("\nTraining Confusion Matrix: ")
 cf matrix = confusion matrix(truth, pred)
  cm display = ConfusionMatrixDisplay(confusion matrix=cf matrix,
display_labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
'Surprise'])
 cm display.plot()
 plt.show()
 print('Accuracy = ', accuracy_score(truth, pred))
 print('Precision = ', precision_score(truth, pred, average='macro'))
 print('Recall = ', recall_score(truth, pred, average='macro'))
 print('F1 Score = ', f1 score(truth, pred, average='macro'))
print('Training')
MetricReport(y train, train pred)
print()
```

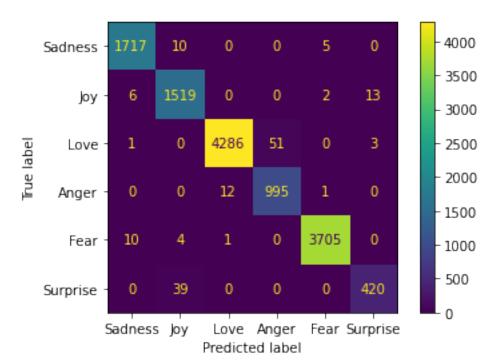
```
print('Validation')
MetricReport(y_val, val_pred)
print()
print('Test')
MetricReport(y_test, test_pred)
```

Training

Training Classification Report:

_	precision	recall	f1-score	support
anger fear joy love sadness surprise	0.99 0.97 1.00 0.95 1.00 0.96	0.99 0.99 0.99 0.99 1.00 0.92	0.99 0.98 0.99 0.97 1.00 0.94	1732 1540 4341 1008 3720 459
accuracy macro avg weighted avg	0.98 0.99	0.98 0.99	0.99 0.98 0.99	12800 12800 12800

Training Confusion Matrix:



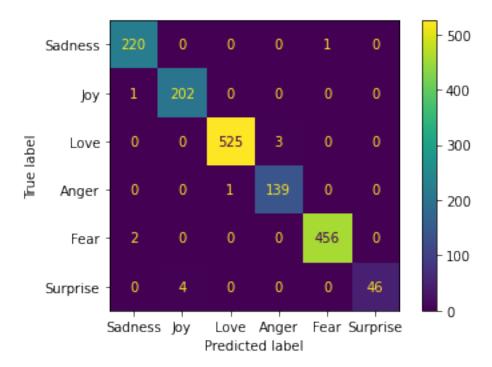
Accuracy = 0.98765625

Precision = 0.9776413494659715 Recall = 0.9771894721379502 F1 Score = 0.9772354377949437

Validation Training Classification Report:

J	precision	recall	f1-score	support
anger fear joy love sadness surprise	0.99 0.98 1.00 0.98 1.00	1.00 1.00 0.99 0.99 1.00 0.92	0.99 0.99 1.00 0.99 1.00 0.96	221 203 528 140 458 50
accuracy macro avg weighted avg	0.99 0.99	0.98 0.99	0.99 0.99 0.99	1600 1600 1600

Training Confusion Matrix:



Accuracy = 0.9925

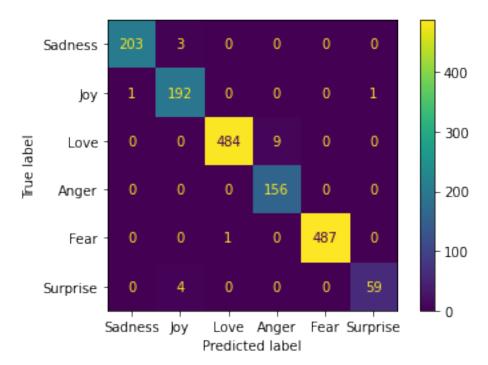
Precision = 0.9903189207364013Recall = 0.9822262528660063 F1 Score = 0.9859735388912743

Training Classification Report:

	precision	recatt	T1-Score	Support
anger	1.00	0.99	0.99	206
fear	0.96	0.99	0.98	194

joy	1.00	0.98	0.99	493
love	0.95	1.00	0.97	156
sadness	1.00	1.00	1.00	488
surprise	0.98	0.94	0.96	63
accuracy			0.99	1600
macro avg	0.98	0.98	0.98	1600
weighted avg	0.99	0.99	0.99	1600

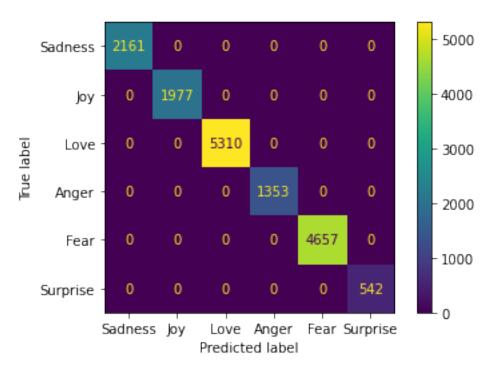
Training Confusion Matrix:



```
train predictions)
# Metrics
print("Training Classification Report: ")
print(classification report(train df transformed['predicted emotion'],
                            train predictions,
                            zero division=1))
print("\nTraining Confusion Matrix: ")
cm_display = ConfusionMatrixDisplay(confusion_matrix=train_matrix,
display labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
'Surprise'l)
cm display.plot()
plt.show()
accuracy = accuracy score(train df transformed['predicted emotion'],
                          train predictions)
macro precision = train report['macro avg']['precision']
macro recall = train report['macro avg']['recall']
macro f1 = train report['macro avg']['f1-score']
print("\nTraining Accuracy: ", accuracy)
print("\nTraining Macro Precision:", macro precision)
print("Training Macro Recall:", macro recall)
print("Training Macro F1-score:", macro f1)
# Predicting on the test dataset and save the predictions
# Re wrote the classifier due to defining it outside the function
classifier = pipeline("text-classification",
                      model='bhadresh-savani/distilbert-base-uncased-
emotion',
                      tokenizer='distilbert-base-uncased')
test predictions = test df transformed['text'].apply(lambda text:
classifier(text)[0]['label'])
test_df['label'] = test_predictions
Training Classification Report:
              precision recall f1-score
                                              support
                             1.00
       anger
                   1.00
                                       1.00
                                                 2161
        fear
                   1.00
                             1.00
                                       1.00
                                                 1977
                  1.00
                             1.00
                                       1.00
         joy
                                                 5310
                   1.00
                             1.00
                                       1.00
                                                 1353
        love
                  1.00
                             1.00
                                       1.00
                                                 4657
     sadness
    surprise
                   1.00
                             1.00
                                       1.00
                                                  542
                                       1.00
                                                16000
    accuracy
```

macro	avg	1.00	1.00	1.00	16000
weighted	avq	1.00	1.00	1.00	16000

Training Confusion Matrix:



Training Accuracy: 1.0

Training Macro Precision: 1.0 Training Macro Recall: 1.0 Training Macro F1-score: 1.0

```
----
```

NameError: name 'test_df_transformed' is not defined test_df

```
index
                                                            text
label
             im feeling quite sad and sorry for myself but ...
sadness
             i feel like i am still looking at a blank canv...
1
sadness
                                 i feel like a faithful servant
          2
2
joy
3
          3
                              i am just feeling cranky and blue
anger
             i can have for a treat or if i am feeling festive
joy
. . .
        . . .
1995
       1995
             im having ssa examination tomorrow in the morn...
sadness
1996
       1996
             i constantly worry about their fight against n...
joy
1997
             i feel its important to share this info for th...
       1997
joy
1998
       1998
             i truly feel that if you are passionate enough...
joy
1999
       1999
            i feel like i just wanna buy any cute make up ...
joy
[2000 rows x 3 columns]
map = {'sadness': 0, 'joy': 1, 'love': 2, 'anger': 3, 'fear': 4,
'surprise': 5}
test df['label'] = test df['label'].map(map)
test df
      index
                                                            text
                                                                  label
             im feeling quite sad and sorry for myself but ...
1
             i feel like i am still looking at a blank canv...
                                                                       0
2
          2
                                 i feel like a faithful servant
                                                                       1
3
          3
                              i am just feeling cranky and blue
                                                                       3
4
          4
             i can have for a treat or if i am feeling festive
                                                                       1
                                                                     . . .
             im having ssa examination tomorrow in the morn...
1995
       1995
                                                                       0
1996
       1996
             i constantly worry about their fight against n...
                                                                       1
1997
       1997
             i feel its important to share this info for th...
                                                                       1
1998
       1998
             i truly feel that if you are passionate enough...
                                                                       1
1999
       1999
             i feel like i just wanna buy any cute make up ...
                                                                       1
[2000 rows \times 3 columns]
```

Remove the text column then submit it

```
a = pd.concat([pd.DataFrame(X_test), pd.DataFrame(y_test),
pd.DataFrame(test pred)], axis = 1, ignore index=True)
a.columns = ['text', 'truth', 'predictions']
df new = a[a['truth'] != a['predictions']]
for i in range(4):
  print(df new['text'].iloc[i+7])
  print('Truth:', df new['truth'].iloc[i+7])
  print('Prediction: , df new['predictions'].iloc[i+7])
  print()
Transformer for Zero Shot for Kaggle 2
Required Preprocessing and Libraries
df = pd.read csv('/content/Local Dataset.csv')
df test = pd.read csv('/content/Kaggle2 Dataset.csv')
display(df)
print()
display(df_test)
                                                      text
                                                            label
                                  i didnt feel humiliated
                                                                0
       i can go from feeling so hopeless to so damned...
1
                                                                0
2
                                                                3
        im grabbing a minute to post i feel greedy wrong
3
                                                                2
       i am ever feeling nostalgic about the fireplac...
4
                                     i am feeling grouchy
                                                                3
                                                                . .
15995
       i just had a very brief time in the beanbag an...
                                                                0
      i am now turning and i feel pathetic that i am...
15996
                                                                0
                           i feel strong and good overall
                                                                1
15997
15998
      i feel like this was such a rude comment and i...
                                                                3
15999
      i know a lot but i feel so stupid because i ca...
[16000 \text{ rows } x \text{ 2 columns}]
      index
                                                            text \
0
          0 im feeling rather rotten so im not very ambiti...
1
          1
                      im updating my blog because i feel shitty
2
             i never make her separate from me because i do...
3
             i left with my bouquet of red and yellow tulip...
4
               i was feeling a little vain when i did this one
1995
       1995
             i just keep feeling like someone is being unki...
             im feeling a little cranky negative after this...
1996
       1996
             i feel that i am useful to my people and that ...
1997
       1997
1998
       1998
            im feeling more comfortable with derby i feel ...
1999
       1999 i feel all weird when i have to meet w people ...
```

```
possible emotions
       ['alarm', 'exasperation', 'terror', 'tendernes...
0
       ['shock', 'jubilation', 'shock', 'fright', 'fr...
['panic', 'shock', 'exultation', 'fright', 'jo...
1
2
       ['attachment', 'annoyance', 'exasperation', 'i...
['tenderness', 'tenderness', 'exultation', 'tr...
3
4
       ['jubilation', 'fondness', 'depression', 'stag...
1995
       ['alarm', 'warmth', 'tenderness', 'depression'...
['sorrow', 'fright', 'intimacy', 'stun', 'depr...
['depression', 'stun', 'warmth', 'annoyance', ...
['shock', 'vexation', 'warmth', 'unhappiness',...
1996
1997
1998
1999
[2000 rows x 3 columns]
!pip uninstall nltk
!pip install nltk
import nltk
nltk.download('omw-1.4')
Found existing installation: nltk 3.7
Uninstalling nltk-3.7:
  Would remove:
    /usr/local/bin/nltk
    /usr/local/lib/python3.9/dist-packages/nltk-3.7.dist-info/*
    /usr/local/lib/python3.9/dist-packages/nltk/*
Proceed (Y/n)? Y
  Successfully uninstalled nltk-3.7
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Collecting nltk
  Downloading nltk-3.8.1-py3-none-any.whl (1.5 MB)
                                               - 1.5/1.5 MB 20.9 MB/s eta
0:00:00
ent already satisfied: click in /usr/local/lib/python3.9/dist-packages
(from nltk) (8.1.3)
Requirement already satisfied: tqdm in /usr/local/lib/python3.9/dist-
packages (from nltk) (4.65.0)
Requirement already satisfied: joblib in
/usr/local/lib/python3.9/dist-packages (from nltk) (1.1.1)
Requirement already satisfied: regex>=2021.8.3 in
/usr/local/lib/python3.9/dist-packages (from nltk) (2022.6.2)
Installing collected packages: nltk
Successfully installed nltk-3.8.1
{"pip warning":{"packages":["nltk"]}}
[nltk data] Downloading package omw-1.4 to /root/nltk data...
True
```

```
from nltk.stem import WordNetLemmatizer
from nltk.corpus import stopwords
from nltk.stem import WordNetLemmatizer
import string
nltk.download('stopwords')
nltk.download('wordnet')
# Defining stopwords and lemmatizer
stopwords = set(stopwords.words('english'))
lemmatizer = WordNetLemmatizer()
def text processing(text):
#Convert to lowercase
#Remove punctuation
#Tokenize the text
#Remove stopwords
#Lemmatize the tokens
    text = text.lower()
    text = text.translate(str.maketrans('', '', string.punctuation))
    tokens = text.split()
    tokens = [token for token in tokens if token not in stopwords]
    tokens = [lemmatizer.lemmatize(token) for token in tokens]
    text = ' '.join(tokens)
    return text
df['text'] = df['text'].apply(text processing)
df_test['text'] = df_test['text'].apply(text_processing)
[nltk data] Downloading package stopwords to /root/nltk data...
             Package stopwords is already up-to-date!
[nltk data]
[nltk data] Downloading package wordnet to /root/nltk data...
[nltk data]
              Package wordnet is already up-to-date!
# Print the preprocessed dataframes
display(df)
print()
display(df test)
                                                    text label
                                   didnt feel humiliated
0
```

```
go feeling hopeless damned hopeful around some...
1
                                                                            0
2
                  im grabbing minute post feel greedy wrong
                                                                            3
3
                                                                            2
        ever feeling nostalgic fireplace know still pr...
4
                                                  feeling grouchy
                                                                            3
             brief time beanbag said anna feel like beaten
15995
                                                                            0
        turning feel pathetic still waiting table subb...
15996
                                                                            0
                                       feel strong good overall
                                                                            1
15997
15998
                                feel like rude comment im glad
                                                                            3
15999
                                  know lot feel stupid portray
[16000 rows x 2 columns]
       index
                       im feeling rather rotten im ambitious right
0
1
            1
                                          im updating blog feel shitty
2
            2
                  never make separate ever want feel like ashamed
3
            3
               left bouquet red yellow tulip arm feeling slig...
            4
4
                                                feeling little vain one
1995
        1995
               keep feeling like someone unkind wrong think g...
               im feeling little cranky negative doctor appoi...
        1996
1996
1997
        1997
               feel useful people give great feeling achievement
1998
        1998
               im feeling comfortable derby feel though start...
1999
        1999
               feel weird meet w people text like dont talk f...
                                              possible emotions
       ['alarm', 'exasperation', 'terror', 'tendernes...
['shock', 'jubilation', 'shock', 'fright', 'fr...
['panic', 'shock', 'exultation', 'fright', 'jo...
['attachment', 'annoyance', 'exasperation', 'i...
0
1
2
3
       ['tenderness', 'tenderness', 'exultation', 'tr...
4
. . .
       ['jubilation', 'fondness', 'depression', 'stag...
1995
       ['alarm', 'warmth', 'tenderness', 'depression'...
['sorrow', 'fright', 'intimacy', 'stun', 'depr...
['depression', 'stun', 'warmth', 'annoyance', ...
['shock', 'vexation', 'warmth', 'unhappiness',...
1996
1997
1998
1999
[2000 rows \times 3 columns]
!pip install transformers
Looking in indexes: https://pypi.org/simple, https://us-
python.pkg.dev/colab-wheels/public/simple/
Requirement already satisfied: transformers in
/usr/local/lib/python3.9/dist-packages (4.26.1)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.9/dist-packages (from transformers) (23.0)
```

```
Requirement already satisfied: filelock in
/usr/local/lib/python3.9/dist-packages (from transformers) (3.9.0)
Requirement already satisfied: tqdm>=4.27 in
/usr/local/lib/python3.9/dist-packages (from transformers) (4.65.0)
Requirement already satisfied: pyyaml>=5.1 in
/usr/local/lib/python3.9/dist-packages (from transformers) (6.0)
Requirement already satisfied: huggingface-hub<1.0,>=0.11.0 in
/usr/local/lib/python3.9/dist-packages (from transformers) (0.13.2)
Requirement already satisfied: regex!=2019.12.17 in
/usr/local/lib/python3.9/dist-packages (from transformers) (2022.6.2)
Requirement already satisfied: tokenizers!=0.11.3,<0.14,>=0.11.1 in
/usr/local/lib/python3.9/dist-packages (from transformers) (0.13.2)
Requirement already satisfied: numpy>=1.17 in
/usr/local/lib/python3.9/dist-packages (from transformers) (1.24.2)
Requirement already satisfied: requests in
/usr/local/lib/python3.9/dist-packages (from transformers) (2.25.1)
Requirement already satisfied: typing-extensions>=3.7.4.3 in
/usr/local/lib/python3.9/dist-packages (from huggingface-
hub<1.0,>=0.11.0->transformers) (4.5.0)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(1.26.15)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(2022.12.7)
Requirement already satisfied: idna<3,>=2.5 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(2.10)
Requirement already satisfied: chardet<5,>=3.0.2 in
/usr/local/lib/python3.9/dist-packages (from requests->transformers)
(4.0.0)
```

Failed Attempt:

Trying to use every emotion against every text Failed due to computational limitations

```
import ast
```

```
# Documentation: https://docs.python.org/3/library/ast.html
# Extracting all the emotions
# Removing duplicates and sort the emotions in alphabetical order

all_emotions = [emotion for emotions in df_test['possible_emotions']
for emotion in ast.literal_eval(emotions)]
unique_emotions = sorted(list(set(all_emotions)))

unique_emotions
['alarm',
    'annoyance',
    'astound',
```

```
'attachment',
 'crossness',
 'dejection',
 'delight',
 'depression',
 'exasperation',
 'exultation',
 'flabbergast',
 'fondness',
 'fright',
 'horror',
 'intimacy',
 'irritation',
 'joyfulness',
 'jubilation',
 'panic',
 'regret',
 'shock',
 'sorrow',
 'stagger',
 'stun',
 'tenderness',
 'terror',
 'triumph',
 'unhappiness',
 'vexation',
 'warmth']
from transformers import pipeline
import pandas as pd
# Load the zero-shot classification pipeline
# Define the emotions to classify the text into
classifier = pipeline("zero-shot-classification")
possible_emotions = ['alarm',
 'annoyance',
 'astound'.
 'attachment',
 'crossness',
 'dejection',
 'delight',
 'depression',
 'exasperation',
 'exultation',
 'flabbergast',
 'fondness',
 'fright',
 'horror',
 'intimacy',
```

```
'irritation',
 'iovfulness',
 'jubilation',
 'panic',
 'regret',
 'shock',
 'sorrow'.
 'stagger',
 'stun',
 'tenderness',
 'terror',
 'triumph',
 'unhappiness',
 'vexation'.
 'warmth'
# Use the classifier to predict the most likely emotion for each row
predicted emotions = []
for i, row in df test cut.iterrows():
    text = row["text"]
    possible_emotions = ast.literal eval(row["possible emotions"])
    \max \ \mathsf{score} = -1
    predicted emotion = ""
    for emotion in possible emotions:
        result = classifier(text, emotion)
        if result["scores"][0] > max score:
            max score = result["scores"][0]
            predicted emotion = result["labels"][0]
    predicted emotions.append(predicted emotion)
# Add the predicted emotions to the test dataframe
df test["predicted emotion"] = predicted emotions
# Save the results to a CSV file
df test.to csv('/path/to/predictions2.csv', index=False)
No model was supplied, defaulted to facebook/bart-large-mnli and
revision c626438 (https://huggingface.co/facebook/bart-large-mnli).
Using a pipeline without specifying a model name and revision in
production is not recommended.
KeyboardInterrupt
                                           Traceback (most recent call
last)
<ipython-input-31-6c0609c9fc0d> in <module>
     41 for i, row in df test.iterrows():
            text = row["text"]
     42
---> 43
            result = classifier(text, possible emotions)
     44
            predicted emotion = result["labels"][0]
```

```
45
            predicted emotions.append(predicted emotion)
/usr/local/lib/python3.9/dist-packages/transformers/pipelines/zero sho
t classification.py in call (self, sequences, *args, **kwargs)
    203
                    raise ValueError(f"Unable to understand extra
arguments {args}")
    204
--> 205
                return super(). call (sequences, **kwargs)
    206
    207
            def preprocess(self, inputs, candidate labels=None,
hypothesis template="This example is {}."):
/usr/local/lib/python3.9/dist-packages/transformers/pipelines/base.py
in call (self, inputs, num workers, batch size, *args, **kwargs)
   \overline{10}74
                    return self.iterate(inputs, preprocess params,
forward params, postprocess params)
                elif self.framework == "pt" and isinstance(self,
   1075
ChunkPipeline):
-> 1076
                    return next(
   1077
                        iter(
   1078
                            self.get iterator(
/usr/local/lib/python3.9/dist-packages/transformers/pipelines/pt utils
.py in next (self)
    122
    123
                # We're out of items within a batch
--> 124
                item = next(self.iterator)
                processed = self.infer(item, **self.params)
    125
                # We now have a batch of "inferred things".
    126
/usr/local/lib/python3.9/dist-packages/transformers/pipelines/pt utils
.py in __next__(self)
    264
    265
                while not is last:
                    processed = self.infer(next(self.iterator),
--> 266
**self.params)
    267
                    if self.loader_batch_size is not None:
    268
                        if isinstance(processed, torch.Tensor):
/usr/local/lib/python3.9/dist-packages/transformers/pipelines/base.py
in forward(self, model inputs, **forward params)
    990
                        with inference context():
    991
                            model inputs =
self. ensure tensor on device(model inputs, device=self.device)
--> 992
                            model outputs =
self. forward(model inputs, **forward params)
                            model outputs =
self. ensure tensor on device(model outputs,
device=torch.device("cpu"))
```

994

else:

```
/usr/local/lib/python3.9/dist-packages/transformers/pipelines/zero sho
t_classification.py in _forward(self, inputs)
                sequence = inputs["sequence"]
    222
    223
                model inputs = {k: inputs[k] for k in
self.tokenizer.model input names}
                outputs = self.model(**model inputs)
    225
    226
                model outputs = {
/usr/local/lib/python3.9/dist-packages/torch/nn/modules/module.py in
call impl(self, *input, **kwargs)
   1192
                if not (self. backward hooks or self. forward hooks or
self._forward_pre_hooks or _global_backward_hooks 1193 or _global_forward_hooks or
_global_forward_pre hooks):
-> 1194
                     return forward call(*input, **kwargs)
                # Do not call functions when jit is used
   1195
   1196
                full backward hooks, non full backward hooks = [], []
/usr/local/lib/python3.9/dist-packages/transformers/models/bart/modeli
ng bart.py in forward(self, input ids, attention mask,
decoder input ids, decoder attention mask, head mask,
decoder head mask, cross attn head mask, encoder outputs,
inputs embeds, decoder inputs embeds, labels, use cache,
output attentions, output hidden states, return dict)
   1520
   1521
-> 1522
                outputs = self.model(
                     input ids,
   1523
                     attention mask=attention mask,
   1524
/usr/local/lib/python3.9/dist-packages/torch/nn/modules/module.py in
call impl(self, *input, **kwargs)
   1192
                if not (self. backward hooks or self. forward hooks or
self._forward_pre_hooks or _global_backward_hooks 1193 or _global_forward_hooks or
_global_forward_pre_hooks):
-> 1194
                     return forward call(*input, **kwargs)
   1195
                # Do not call functions when jit is used
   1196
                full backward hooks, non full backward hooks = [], []
/usr/local/lib/python3.9/dist-packages/transformers/models/bart/modeli
ng bart.py in forward(self, input ids, attention mask,
decoder input ids, decoder attention mask, head mask,
decoder head mask, cross attn head mask, encoder outputs,
past key values, inputs embeds, decoder inputs embeds, use cache,
output attentions, output hidden states, return dict)
   1254
   1255
                # decoder outputs consists of (dec features,
```

```
past_key_value, dec hidden, dec attn)
-> 1256
                decoder outputs = self.decoder(
   1257
                    input ids=decoder input ids,
   1258
                    attention mask=decoder attention mask,
/usr/local/lib/python3.9/dist-packages/torch/nn/modules/module.py in
_call_impl(self, *input, **kwargs)
                if not (self. backward hooks or self. forward hooks or
   1192
self._forward_pre_hooks or _global_backward_hooks
                        or _global_forward_hooks or
   1193
global forward pre hooks):
                    return forward call(*input, **kwargs)
-> 1194
                # Do not call functions when jit is used
   1195
   1196
                full backward hooks, non full backward hooks = [], []
/usr/local/lib/python3.9/dist-packages/transformers/models/bart/modeli
ng bart.py in forward(self, input ids, attention mask,
encoder hidden states, encoder attention mask, head mask,
cross_attn_head_mask, past_key_values, inputs_embeds, use_cache,
output attentions, output hidden states, return dict)
   1111
                    else:
   1112
-> 1113
                        layer outputs = decoder layer(
   1114
                            hidden states,
   1115
                            attention mask=attention mask,
/usr/local/lib/python3.9/dist-packages/torch/nn/modules/module.py in
_call_impl(self, *input, **kwargs)
                if not (self. backward hooks or self. forward hooks or
self._forward_pre_hooks or _global_backward_hooks
                        or _global forward hooks or
   1193
_global_forward_pre_hooks):
-> 1194
                    return forward call(*input, **kwargs)
   1195
                # Do not call functions when jit is used
   1196
                full backward hooks, non full backward hooks = [], []
/usr/local/lib/python3.9/dist-packages/transformers/models/bart/modeli
ng bart.py in forward(self, hidden states, attention mask,
encoder hidden states, encoder attention mask, layer head mask,
cross attn layer head mask, past key value, output attentions,
use cache)
                    # cross attn cached key/values tuple is at
    443
positions 3,4 of present key value tuple
                    cross_attn_past_key_value = past key value[-2:] if
past key value is not None else None
--> 445
                    hidden_states, cross_attn_weights,
cross attn present key value = self.encoder attn(
    446
                        hidden states=hidden states,
    447
                        key value states=encoder hidden states,
```

```
/usr/local/lib/python3.9/dist-packages/torch/nn/modules/module.py in
_call_impl(self, *input, **kwargs)
   1192
                if not (self. backward hooks or self. forward hooks or
self. forward pre hooks or global backward hooks
                        or _global_forward hooks or
   1193
_global_forward_pre_hooks):
                    return forward call(*input, **kwarqs)
-> 1194
                # Do not call functions when jit is used
   1195
   1196
                full backward hooks, non full backward hooks = [], []
/usr/local/lib/python3.9/dist-packages/transformers/models/bart/modeli
ng bart.py in forward(self, hidden states, key value states,
past key value, attention mask, layer head mask, output attentions)
    288
                attn output = attn output.reshape(bsz, tgt len,
self.embed dim)
    289
--> 290
                attn output = self.out proj(attn output)
    291
                return attn output, attn weights reshaped,
    292
past key value
/usr/local/lib/python3.9/dist-packages/torch/nn/modules/module.py in
_call_impl(self, *input, **kwargs)
                if not (self. backward hooks or self. forward hooks or
self._forward_pre_hooks or _global_backward_hooks
                        or _global_forward_hooks or
   1193
global forward pre hooks):
                    return forward call(*input, **kwargs)
-> 1194
   1195
                # Do not call functions when jit is used
   1196
                full backward hooks, non full backward hooks = [], []
/usr/local/lib/python3.9/dist-packages/torch/nn/modules/linear.py in
forward(self, input)
    112
    113
            def forward(self, input: Tensor) -> Tensor:
                return F.linear(input, self.weight, self.bias)
--> 114
    115
    116
            def extra repr(self) -> str:
```

KeyboardInterrupt:

Failed Attempt 2:

Tried a for loop to itterate through the possible_emotion row by row and picking the emotion with the highest probability score Failed due to a 0% on Kaggle wrong predictions

```
from transformers import pipeline
import pandas as pd
import ast
```

```
# Loading the zero-shot classification pipeline
# Using the classifier to predict the most likely emotion for each row
and possible emotion
# Model: twitter-roberta-base-emotion
classifier = pipeline("text-classification",
model="cardiffnlp/twitter-roberta-base-emotion")
predicted emotions = []
for i, row in df test.iterrows():
    text = row["text"]
    possible emotions = ast.literal eval(row["possible emotions"])
    \max \ \text{score} = -1
    predicted emotion = ""
    for emotion in possible emotions:
        result = classifier(text, [emotion])
        if result[0]["score"] > max score:
            max score = result[0]["score"]
            predicted emotion = emotion
    predicted emotions.append(predicted emotion)
# Add the predicted emotions to the test dataframe
df test["predicted emotions"] = predicted emotions
# Save the results to a CSV file
df test.to csv('predictions3.csv', index=False)
Streaming output truncated to the last 5000 lines.
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df pred2 = pd.read csv('/content/predictions3.csv')
df_pred2.drop("possible_emotions", axis =1, inplace = True)
df pred2.drop("text", axis=1, inplace = True)
df pred2 = df pred2.rename(columns={'predicted emotions': 'labels'})
df pred2.to csv('predictions6.csv', index=False)
display(df pred2)
      index
                 labels
0
          0
                  alarm
1
          1
                  shock
2
          2
                  panic
3
          3 attachment
4
          4
            tenderness
1995
             iubilation
       1995
       1996
1996
                  alarm
1997
       1997
                 sorrow
1998
       1998
             depression
1999
       1999
                  shock
[2000 rows x 2 columns]
```

Successful Attempt 3:

Used roberta-large-mnli a much larger pretrained model and looped through the possible_emotion row by row and picking the emotion with the highest probability score Succeeded with 0.364% score on Kaggle

```
from transformers import pipeline
import pandas as pd
import ast
# Loading the zero-shot classification pipeline using the mode
# roberta-large-mnli
classifier = pipeline("zero-shot-classification", model="roberta-
large-mnli")
predicted emotions = []
for i, row in df test.iterrows():
    text = row["text"]
    possible emotions = ast.literal eval(row["possible emotions"])
    \max \ \text{score} = -1
    predicted emotion = ""
    for emotion in possible emotions:
        result = classifier(text, emotion)
        if result["scores"][0] > max score:
            max score = result["scores"][0]
            predicted emotion = result["labels"][0]
    predicted emotions.append(predicted emotion)
# Add the predicted emotions to the test dataframe
df test["predicted emotions"] = predicted emotions
# Save the results to a CSV file
df test.to csv('predictions7.csv', index=False)
{"model id":"cb2ea3c101594404a4c271b68d97e70a","version major":2,"vers
ion minor":0}
{"model id":"c7acfabde4c04d1594f101699a70f617","version major":2,"vers
ion minor":0}
Some weights of the model checkpoint at roberta-large-mnli were not
used when initializing RobertaForSequenceClassification:
['roberta.pooler.dense.weight', 'roberta.pooler.dense.bias']
- This IS expected if you are initializing
RobertaForSequenceClassification from the checkpoint of a model
trained on another task or with another architecture (e.g.
initializing a BertForSequenceClassification model from a
BertForPreTraining model).
- This IS NOT expected if you are initializing
RobertaForSequenceClassification from the checkpoint of a model that
you expect to be exactly identical (initializing a
```

```
BertForSequenceClassification model from a
BertForSequenceClassification model).
{"model id": "d2590cf9000248939a88203485ecf403", "version major": 2, "vers
ion minor":0}
{"model id": "8eaa7588b11e43669cf1e03d3909bf7e", "version major": 2, "vers
ion minor":0}
{"model id": "608bbcbdd5624b9882c917f96112b961", "version major": 2, "vers
ion minor":0}
df pred5 = pd.read csv('predictions7.csv')
df pred5.drop("possible emotions", axis =1, inplace = True)
df pred5.drop("text", axis=1, inplace = True)
df pred5 = df pred5.rename(columns={'predicted emotions': 'labels'})
df pred5.to csv('predictions7.csv', index=False)
df pred5
      index
                   labels
0
          0 exasperation
1
          1
                   sorrow
2
          2
                    regret
3
          3
                 intimacy
4
          4
              unhappiness
        . . .
1995
       1995
                annovance
1996
       1996
                 vexation
1997
       1997
                  triumph
1998
       1998
                   warmth
1999
       1999
                 vexation
[2000 rows x 2 columns]
```

Unsure Attempt 4:

Used t5 large a much larger pretrained model and looped through the possible_emotion row by row and picking the emotion with the highest probability score. Unable to verify until I restart the kernel

from transformers import T5ForConditionalGeneration, T5Tokenizer

```
model = T5ForConditionalGeneration.from pretrained("t5-large")
tokenizer = T5Tokenizer.from pretrained("t5-large")
predicted emotions = []
for i, row in df test.iterrows():
    text = row["text"]
    possible emotions = ast.literal eval(row["possible emotions"])
    input text = "classify emotions: {} to {}".format(text,
possible emotions)
    input ids = tokenizer.encode(input text, return tensors="pt")
    output = model.generate(input_ids)
    predicted emotion = tokenizer.decode(output[0],
skip special tokens=True)
    predicted emotions.append(predicted emotion)
# Add the predicted emotions to the test dataframe
df test["predicted emotions"] = predicted emotions
# Save the results to a CSV file
df test.to csv('predictions8.csv', index=False)
                                           Traceback (most recent call
TypeError
last)
<ipython-input-39-3636be12d252> in <module>
      3 model = T5ForConditionalGeneration.from pretrained("t5-large")
----> 4 tokenizer = T5Tokenizer.from pretrained("t5-large")
      6 predicted emotions = []
TypeError: 'NoneType' object is not callable
df pred8 = pd.read csv('predictions8.csv')
df pred8
Unsure Attempt 5:
Used GPT-2 a much larger pretrained model and looped through the possible_emotion row
by row and picking the emotion with the highest probability score. Computationally
Expensive and the run time is extermely long almost 2 hours Kaggle Score: 0.0755%
from transformers import pipeline
# load the zero-shot classification pipeline with GPT-2 as the model
classifier = pipeline("zero-shot-classification",
model="EleutherAI/gpt-neo-2.7B")
predicted emotions = []
```

```
for i, row in df test.iterrows():
    text = row["text"]
    possible emotions = ast.literal eval(row["possible emotions"])
    \max \ \text{score} = -1
    predicted emotion = ""
    for emotion in possible emotions:
        result = classifier(text, emotion)
        if result["scores"][0] > max_score:
            max score = result["scores"][0]
            predicted emotion = result["labels"][0]
    predicted emotions.append(predicted emotion)
# Add the predicted emotions to the test dataframe
df test["predicted emotions"] = predicted emotions
# Save the results to a CSV file
df test.to csv('predictions9.csv', index=False)
{"model id":"148056bf30a04e1f9df469dcccc04d9f","version major":2,"vers
ion minor":0}
{"model id":"0c0f6ddd13e845e3aa66988856e20655","version major":2,"vers
ion minor":0}
Some weights of GPTNeoForSequenceClassification were not initialized
from the model checkpoint at EleutherAI/qpt-neo-2.7B and are newly
initialized: ['transformer.h.25.attn.attention.bias',
'transformer.h.21.attn.attention.bias',
'transformer.h.19.attn.attention.bias',
'transformer.h.15.attn.attention.bias',
'transformer.h.9.attn.attention.bias',
'transformer.h.13.attn.attention.bias'
'transformer.h.27.attn.attention.bias',
'transformer.h.3.attn.attention.bias'
'transformer.h.17.attn.attention.bias',
'transformer.h.7.attn.attention.bias'.
'transformer.h.l.attn.attention.bias'
'transformer.h.29.attn.attention.bias',
'transformer.h.31.attn.attention.bias',
'transformer.h.5.attn.attention.bias',
'transformer.h.23.attn.attention.bias'
'transformer.h.11.attn.attention.bias', 'score.weight']
You should probably TRAIN this model on a down-stream task to be able
to use it for predictions and inference.
{"model id": "d12ae5223e0d446f94abd00adf98308f", "version major": 2, "vers
ion minor":0}
{"model id": "4f8323f938b3491b9cede83ab5595cab", "version major": 2, "vers
ion minor":0}
```

```
{"model id": "b5f21ff690354dd5aa335c9d07feb8df", "version major": 2, "vers
ion minor":0}
{"model id":"c482f913daf9433ca0184754f2381249","version major":2,"vers
ion minor":0}
Failed to determine 'entailment' label id from the label2id mapping in
the model config. Setting to -1. Define a descriptive label2id mapping
in the model config to ensure correct outputs.
Using pad token, but it is not set yet.
Tokenizer was not supporting padding necessary for zero-shot,
attempting to use `pad token=eos token`
df pred9 = pd.read csv('predictions9.csv')
df pred9
      index
0
            im feeling rather rotten so im not very ambiti...
1
          1
                     im updating my blog because i feel shitty
2
            i never make her separate from me because i do...
3
          3
             i left with my bouquet of red and yellow tulip...
4
               i was feeling a little vain when i did this one
. . .
1995
       1995
            i just keep feeling like someone is being unki...
             im feeling a little cranky negative after this...
1996
       1996
             i feel that i am useful to my people and that ...
1997
       1997
             im feeling more comfortable with derby i feel ...
1998
       1998
1999
       1999
             i feel all weird when i have to meet w people ...
                                      possible emotions
predicted emotions
      ['alarm', 'exasperation', 'terror', 'tendernes...
exasperation
      ['shock', 'jubilation', 'shock', 'fright', 'fr...
tenderness
      ['panic', 'shock', 'exultation', 'fright', 'jo...
rearet
      ['attachment', 'annoyance', 'exasperation', 'i...
intimacy
      ['tenderness', 'tenderness', 'exultation', 'tr...
intimacv
. . .
      ['jubilation', 'fondness', 'depression', 'stag...
1995
warmth
      ['alarm', 'warmth', 'tenderness', 'depression'...
1996
warmth
      ['sorrow', 'fright', 'intimacy', 'stun', 'depr...
1997
intimacy
1998 ['depression', 'stun', 'warmth', 'annoyance', ...
horror
```

```
1999 ['shock', 'vexation', 'warmth', 'unhappiness',...
warmth
[2000 rows \times 4 columns]
df pred9.drop("possible emotions", axis =1, inplace = True)
df_pred9.drop("text", axis=1, inplace = True)
df_pred9 = df_pred9.rename(columns={'predicted_emotions': 'labels'})
df pred9.to csv('predictions9.csv', index=False)
df pred9
      index
                   labels
0
          0 exasperation
1
          1
               tenderness
2
          2
                   regret
3
          3
                 intimacy
4
          4
                 intimacy
. . .
1995
       1995
                   warmth
       1996
1996
                   warmth
1997
       1997
                 intimacy
1998
       1998
                   horror
1999
       1999
                   warmth
[2000 rows x 2 columns]
Exercise 5 (Dealing with Overfit)
def undersampsRand(data):
 df0 = data[data['label'] == 0]
 df1 = data[data['label'] == 1]
 df2 = data[data['label'] == 2]
 df3 = data[data['label'] == 3]
  df4 = data[data['label'] == 4]
 df5 = data[data['label'] == 5]
 df0 = df0.sample(n = 500, replace = True)
 df1 = df1.sample(n = 500, replace = True)
 df2 = df2.sample(n = 500, replace = True)
  df3 = df3.sample(n = 500, replace = True)
  df4 = df4.sample(n = 500, replace = True)
  df5 = df5.sample(n = 500, replace = True)
  return pd.concat([df0, df1, df2, df3, df4, df5], axis = 0)
Logistic Regression
from sklearn.model selection import train test split
from sklearn.linear model import LogisticRegression
```

```
from sklearn.feature extraction.text import CountVectorizer
from sklearn.metrics import accuracy score, classification report,
confusion_matrix, precision_score, recall_score, f1_score,
roc auc score
from sklearn.metrics import precision recall curve
def tokenize(df):
   # CountVectorizer object to tokenize the tweets
   # from the 'text' column
   # fitting it to the 'text' column
   cv = CountVectorizer()
   # Converting the 'text' from object to string
   df['text'] = df['text'].astype(str)
   cv.fit(df['text'])
   tokenized = cv.transform(df['text'])
   # Return a list of tokenized tweets.
   return tokenized
# Tokenize the tweets
df =
pd.read csv('/content/drive/MyDrive/Intro2AdvancedML/TwitterSentimentP
roject/TwitterSentiment.csv')
test df =
pd.read csv('/content/drive/MyDrive/Intro2AdvancedML/TwitterSentimentP
roject/Kaggle1Sentiment.csv')
----#
#Undersample
df = undersampsRand(df)
# ------
----#
tokenized df = tokenize(df)
# To test the model on a tokenized test dataset
tokenized kaggle = tokenize(test df)
https://scikit-learn.org/stable/modules/generated/sklearn.preprocessin
a.LabelBinarizer.html
from sklearn.preprocessing import LabelBinarizer
def LR(df, max iter=2000):
   X = tokenized df
   y = df['label']
---#
```

```
# Train Test Split using the fitting with Logistic Regression
    X_train, X_test, y_train, y_test = train_test_split(X, y,
test_size=0.2, random_state=42)
    lr = LogisticRegression()
    lr.fit(X train, y train)
---#
    y pred = lr.predict(X test)
    lb = LabelBinarizer()
    lb.fit(y_test)
    test labels = lb.transform(y test)
    test_predictions = lb.transform(y_pred)
---#
    accuracy = accuracy_score(y_test, y_pred)
    precision_macro = precision_score(y_test, y_pred, average='macro')
    recall_macro = recall_score(y_test, y_pred, average='macro')
    f1_macro = f1_score(y_test, y_pred, average='macro')
    auc macro = roc auc score(test labels, test predictions,
average='macro', multi class='ovo')
---#
    print('Accuracy:', accuracy)
    print(classification report(y test, y pred))
    print()
    print('Confusion Matrix: \n')
    cf_matrix = confusion_matrix(y_test, y_pred)
    cm display = ConfusionMatrixDisplay(confusion matrix=cf matrix,
display labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
'Surprise'])
    cm display.plot()
    plt.show()
    print()
    print('Macro Precision:', precision_macro)
    print('Macro Recall:', recall_macro)
    print('Macro F1-score:', f1 macro)
    print('Macro AUC:', auc macro)
LR(df, max iter=2000)
/usr/local/lib/python3.9/dist-packages/sklearn/linear model/
logistic.py:458: ConvergenceWarning: lbfgs failed to converge
(status=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
Increase the number of iterations (max iter) or scale the data as
shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative solver options:
```

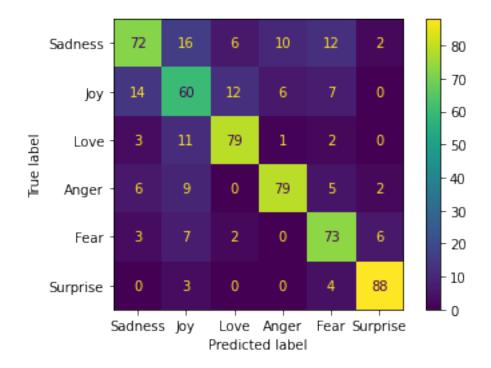
https://scikit-learn.org/stable/modules/linear_model.html#logisticregression

n_iter_i = _check_optimize_result(

Accuracy: 0.751666666666667

	precision	recall	f1-score	support
0	0.73	0.61	0.67	118
1	0.57	0.61	0.59	99
2	0.80	0.82	0.81	96
3	0.82	0.78	0.80	101
4	0.71	0.80	0.75	91
5	0.90	0.93	0.91	95
accuracy			0.75	600
macro avg	0.75	0.76	0.75	600
weighted avg	0.75	0.75	0.75	600

Confusion Matrix:



Macro Precision: 0.7547208542996134 Macro Recall: 0.7583064289576608 Macro F1-score: 0.7548023009112717 Macro AUC: 0.8542990454455425

```
LSTM
```

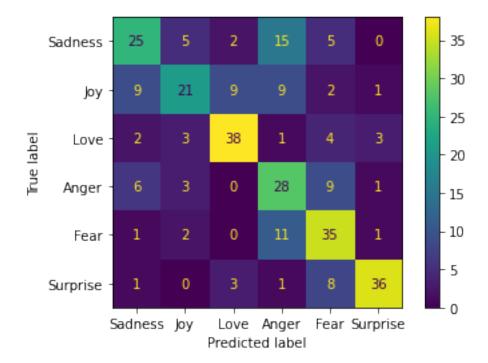
```
import pandas as pd
import numpy as np
from keras.preprocessing.text import Tokenizer
from keras.models import Sequential
from keras.layers import Embedding, LSTM, Dense
#-----
----#
# Tokenizer: https://keras.io/api/preprocessing/text/
# Sequential model: https://keras.io/api/models/sequential/
# Embedding layer: https://keras.io/api/layers/core layers/embedding/
# LSTM layer: https://keras.io/api/layers/recurrent layers/lstm/
# Dense layer: https://keras.io/api/layers/core layers/dense/
# compile method:
https://keras.io/api/models/model training apis/#compile-method
# fit method: https://keras.io/api/models/model training apis/#fit-
method
# pad sequences function:
https://keras.io/api/preprocessing/timeseries/#pad sequences-function
----#
# load the training dataset
train data =
pd.read csv('/content/drive/MyDrive/Intro2AdvancedML/TwitterSentimentP
roject/TwitterSentiment.csv')
----#
#Undersample
train data = undersampsRand(train data)
----#
# tokenize the text data
tokenizer = Tokenizer()
tokenizer.fit on texts(train data['text'])
train_seq = tokenizer.texts_to_sequences(train_data['text'])
train_pad_seq = pad_sequences(train_seq, maxlen=50, padding='post')
#-----
# create one-hot-encoded labels
train labels = pd.get dummies(train data['label']).values
X train, X test, y train, y test = train test split(train pad seq,
train labels, test size=0.2, random state=42)
```

```
X val, X test, y val, y test = train test split(X test, y test,
test size=0.5, random state=42)
# define the LSTM model
model = Sequential()
model.add(Embedding(len(tokenizer.word index)+1, 32, input length=50))
model.add(LSTM(64))
model.add(Dense(6, activation='softmax'))
# compile the model
model.compile(optimizer='adam', loss='categorical crossentropy',
metrics=['accuracy'])
#-----
----#
# train the model
history = model.fit(X_train, y_train, validation_data = (X_val,
y val), epochs=30, batch size=64)
----#
# Test Set
pred = model.predict(X test)
test pred labels = np.argmax(pred, axis=1)
y test = pd.DataFrame(y test).idxmax(axis=1)
print(classification report(y test, test pred labels))
print()
print('Confusion Matrix: \n')
cf matrix = confusion matrix(y test, test pred labels)
cm display = ConfusionMatrixDisplay(confusion matrix=cf matrix,
display_labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
'Surprise'])
cm display.plot()
plt.show()
print('Precision = ', precision score(y test, test pred labels,
average='macro'))
print('Recall = ', recall_score(y_test, test_pred_labels,
average='macro'))
print('F1 Score = ', f1_score(y_test, test_pred_labels,
average='macro'))
Epoch 1/30
accuracy: 0.1596 - val loss: 1.7974 - val accuracy: 0.1500
Epoch 2/30
accuracy: 0.1683 - val_loss: 1.7929 - val_accuracy: 0.1667
Epoch 3/30
```

```
accuracy: 0.1708 - val loss: 1.7946 - val accuracy: 0.1533
Epoch 4/30
38/38 [============= ] - 1s 27ms/step - loss: 1.7855 -
accuracy: 0.1908 - val loss: 1.7735 - val accuracy: 0.2300
accuracy: 0.2983 - val loss: 1.5092 - val accuracy: 0.2600
Epoch 6/30
38/38 [============= ] - 1s 27ms/step - loss: 1.2770 -
accuracy: 0.3762 - val loss: 1.4760 - val accuracy: 0.3767
Epoch 7/30
accuracy: 0.4629 - val loss: 1.4829 - val accuracy: 0.3800
Epoch 8/30
38/38 [============= ] - 1s 27ms/step - loss: 0.9336 -
accuracy: 0.5633 - val loss: 1.5272 - val accuracy: 0.4433
Epoch 9/30
38/38 [============== ] - 1s 27ms/step - loss: 0.7943 -
accuracy: 0.6333 - val loss: 1.4631 - val accuracy: 0.5100
Epoch 10/30
38/38 [============== ] - 1s 28ms/step - loss: 0.5918 -
accuracy: 0.7437 - val loss: 1.4751 - val accuracy: 0.5367
Epoch 11/30
38/38 [============== ] - 1s 28ms/step - loss: 0.4510 -
accuracy: 0.7925 - val loss: 1.4276 - val accuracy: 0.5633
Epoch 12/30
38/38 [============== ] - 1s 28ms/step - loss: 0.3860 -
accuracy: 0.8358 - val loss: 1.5294 - val accuracy: 0.5533
Epoch 13/30
38/38 [============== ] - 1s 28ms/step - loss: 0.3215 -
accuracy: 0.8662 - val loss: 1.4285 - val accuracy: 0.6067
Epoch 14/30
38/38 [============== ] - 1s 27ms/step - loss: 0.2326 -
accuracy: 0.9242 - val loss: 1.5844 - val accuracy: 0.6000
Epoch 15/30
38/38 [============== ] - 1s 28ms/step - loss: 0.1755 -
accuracy: 0.9450 - val loss: 1.6686 - val accuracy: 0.6300
Epoch 16/30
38/38 [============== ] - 1s 28ms/step - loss: 0.1494 -
accuracy: 0.9588 - val loss: 1.6543 - val accuracy: 0.6333
Epoch 17/30
38/38 [============== ] - 1s 27ms/step - loss: 0.1373 -
accuracy: 0.9638 - val loss: 1.7327 - val accuracy: 0.6300
Epoch 18/30
38/38 [============== ] - 1s 27ms/step - loss: 0.1336 -
accuracy: 0.9596 - val loss: 1.7380 - val accuracy: 0.6000
Epoch 19/30
38/38 [============== ] - 1s 27ms/step - loss: 0.1245 -
accuracy: 0.9650 - val loss: 1.7667 - val accuracy: 0.6300
```

```
Epoch 20/30
accuracy: 0.9658 - val loss: 1.7227 - val accuracy: 0.6367
Epoch 21/30
38/38 [============= ] - 1s 30ms/step - loss: 0.0759 -
accuracy: 0.9829 - val loss: 1.7340 - val accuracy: 0.6367
Epoch 22/30
accuracy: 0.9787 - val loss: 1.9295 - val accuracy: 0.6067
Epoch 23/30
38/38 [============== ] - 1s 29ms/step - loss: 0.0666 -
accuracy: 0.9846 - val loss: 1.8853 - val accuracy: 0.6333
Epoch 24/30
accuracy: 0.9854 - val loss: 1.8117 - val accuracy: 0.6600
Epoch 25/30
accuracy: 0.9883 - val_loss: 1.9812 - val_accuracy: 0.6367
Epoch 26/30
38/38 [============== ] - 1s 28ms/step - loss: 0.0924 -
accuracy: 0.9771 - val loss: 1.9826 - val accuracy: 0.6400
Epoch 27/30
accuracy: 0.9912 - val loss: 2.0187 - val accuracy: 0.6500
Epoch 28/30
38/38 [============= ] - 1s 28ms/step - loss: 0.0320 -
accuracy: 0.9937 - val_loss: 2.0131 - val_accuracy: 0.6500
Epoch 29/30
accuracy: 0.9829 - val loss: 2.1839 - val accuracy: 0.6300
Epoch 30/30
accuracy: 0.9867 - val_loss: 2.0693 - val_accuracy: 0.6433
10/10 [=======] - 0s 7ms/step
         precision recall f1-score
                               support
       0
             0.57
                    0.48
                          0.52
                                   52
       1
             0.62
                    0.41
                          0.49
                                   51
       2
             0.73
                    0.75
                          0.74
                                   51
       3
             0.43
                   0.60
                          0.50
                                   47
       4
                    0.70
             0.56
                          0.62
                                   50
       5
             0.86
                    0.73
                          0.79
                                   49
  accuracy
                          0.61
                                  300
             0.63
                   0.61
                          0.61
                                  300
  macro avq
weighted avg
             0.63
                    0.61
                          0.61
                                  300
```

Confusion Matrix:



```
Precision = 0.626677625207037

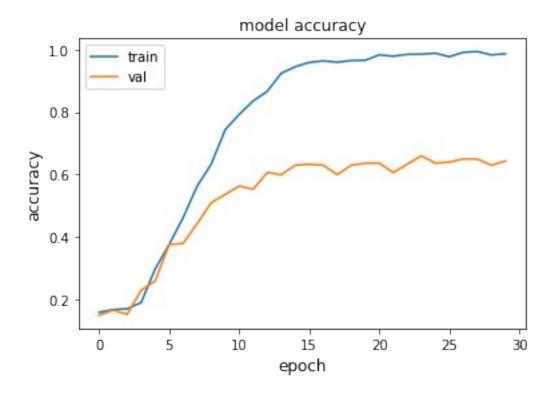
Recall = 0.6113450890448924

F1 Score = 0.6105821459699207
```

```
_ _ _ _ #
# load the test dataset
test data =
pd.read csv('/content/drive/MyDrive/Intro2AdvancedML/TwitterSentimentP
roject/Kaggle1Sentiment.csv')
----#
# tokenize and pad the text data
test seq = tokenizer.texts to sequences(test data['text'])
test pad seq = pad sequences(test seq, maxlen=50, padding='post')
----#
# make predictions on test data
test_pred = model.predict(test_pad_seq)
#-----
# save the predictions to a csv file
test_pred_labels = np.argmax(test_pred, axis=1)
test data['label'] = test pred labels
test data.to csv('test pred.csv', index=False)
63/63 [========= ] - Os 7ms/step
def plotting_nn():
 metric = "accuracy"
```

```
plt.figure()
plt.plot(history.history[metric])
plt.plot(history.history["val_" + metric])
plt.title("model " + metric)
plt.ylabel(metric, fontsize="large")
plt.xlabel("epoch", fontsize="large")
plt.legend(["train", "val"], loc="best")
return plt.show()
```

plotting nn()



Transformer

```
from sklearn.metrics import classification_report, confusion_matrix,
accuracy_score
from transformers import pipeline
import pandas as pd
#
https://huggingface.co/docs/transformers/main_classes/pipelines#transf
ormers.pipeline
#
https://scikit-learn.org/stable/modules/generated/sklearn.metrics.clas
sification_report.html
#
https://scikit-learn.org/stable/modules/generated/sklearn.metrics.conf
usion_matrix.html
```

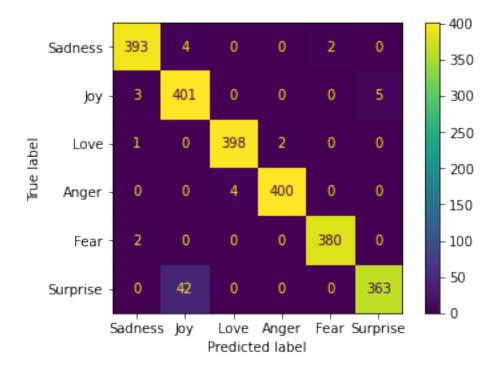
```
classifier = pipeline("text-classification",
                    model='bhadresh-savani/distilbert-base-uncased-
emotion',
               tokenizer='distilbert-base-uncased')
def transformer(df):
   # Applying it to the Text Column
   emotions = df['text'].apply(classifier)
   # Extract the predicted emotion labels and scores
   predicted emotions = emotions.apply(lambda x: x[0]['label'])
   predicted_scores = emotions.apply(lambda x: x[0]['score'])
   # Combine the predicted emotion labels and scores into a dataframe
   df_predicted = pd.DataFrame({'text': df['text'],
                               'predicted emotion':
predicted emotions,
                               'predicted score': predicted scores})
   return df_predicted
# The Datasets
labelinfo = {'sadness': 0, 'joy': 1, 'love': 2, 'anger': 3, 'fear': 4,
'surprise': 5}
train df =
pd.read csv('/content/drive/MyDrive/Intro2AdvancedML/TwitterSentimentP
roject/\overline{T}witterSentiment.csv')
----#
#Undersample
train df = undersampsRand(train_df)
#-----
----#
for i, num in enumerate(train df['label']):
  for j in labelinfo:
   if labelinfo[j] == num:
     train df['label'].loc[train df.index[i]] = j
pd.read csv('/content/drive/MyDrive/Intro2AdvancedML/TwitterSentimentP
roject/Kaggle1Sentiment.csv')
X_train, X_test, y_train, y_test = train_test_split(train_df['text'],
train_df['label'], test_size=0.2, random state=42)
X_val, X_test, y_val, y_test = train_test_split(X_test, y_test,
test size=0.5, random state=42)
<ipython-input-92-9a7ee2933473>:36: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
```

```
See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#
returning-a-view-versus-a-copy
  train df['label'].loc[train df.index[i]] = j
# Transform the datasets
temp = X train.apply(classifier)
train pre\overline{d} = temp.apply(lambda x: x[0]['label'])
temp = X val.apply(classifier)
val pred = temp.apply(lambda x: x[0]['label'])
temp = X test.apply(classifier)
test pred = temp.apply(lambda x: x[0]['label'])
train df transformed = transformer(train df)
kaggle df transformed = transformer(test df)
# Metrics
def MetricReport(truth, pred):
  print("Training Classification Report: ")
  print(classification report(truth,
                              pred,
                              zero division=1))
  print("\nTraining Confusion Matrix: ")
  cf matrix = confusion matrix(truth, pred)
  cm display = ConfusionMatrixDisplay(confusion matrix=cf matrix,
display labels = ['Sadness', 'Joy', 'Love', 'Anger', 'Fear',
'Surprise'])
  cm display.plot()
  plt.show()
  print('Accuracy = ', accuracy_score(truth, pred))
  print('Precision = ', precision score(truth, pred, average='macro'))
  print('Recall = ', recall_score(truth, pred, average='macro'))
  print('F1 Score = ', f1 score(truth, pred, average='macro'))
print('Training')
MetricReport(y train, train pred)
print()
print('Validation')
MetricReport(y val, val pred)
print()
print('Test')
MetricReport(y test, test pred)
```

Training Classification Report:

Training ctas	JI I I CU CI OII	report.		
	precision	recall	f1-score	support
	0.00	0.00	0.00	200
anger	0.98	0.98	0.98	399
fear	0.90	0.98	0.94	409
joy	0.99	0.99	0.99	401
love	1.00	0.99	0.99	404
sadness	0.99	0.99	0.99	382
surprise	0.99	0.90	0.94	405
accuracy			0.97	2400
macro avg	0.97	0.97	0.97	2400
weighted avg	0.97	0.97	0.97	2400

Training Confusion Matrix:



Accuracy = 0.972916666666667 Precision = 0.9747176994766346 Recall = 0.9731801518599149 F1 Score = 0.9732798571819838

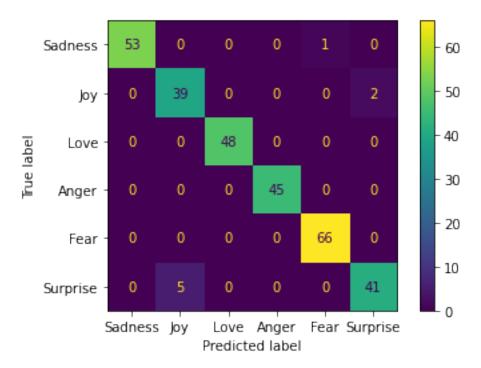
Validation

Training Classification Report:

	precision	recall	f1-score	support
anger	1.00	0.98	0.99	54

fear	0.89	0.95	0.92	41
joy	1.00	1.00	1.00	48
love	1.00	1.00	1.00	45
sadness	0.99	1.00	0.99	66
surprise	0.95	0.89	0.92	46
accuracy			0.97	300
macro avg	0.97	0.97	0.97	300
weighted avg	0.97	0.97	0.97	300

Training Confusion Matrix:



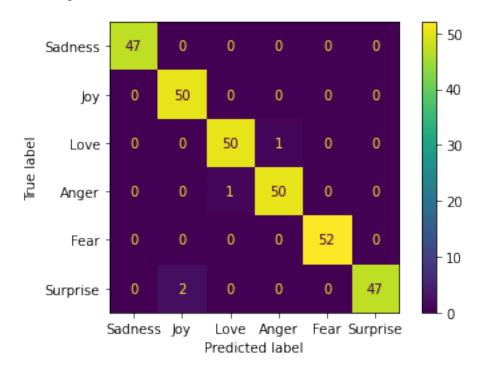
Accuracy = 0.9733333333333334 Precision = 0.9708211058870552 Recall = 0.9706675569171149 F1 Score = 0.9703551303408777

Test Training Classification Report:

-	precision	recall	f1-score	support
anger	1.00	1.00	1.00	47
fear	0.96	1.00	0.98	50
joy	0.98	0.98	0.98	51
love	0.98	0.98	0.98	51
sadness	1.00	1.00	1.00	52
surprise	1.00	0.96	0.98	49

accuracy			0.99	300
macro avg	0.99	0.99	0.99	300
weighted avg	0.99	0.99	0.99	300

Training Confusion Matrix:



Accuracy = 0.986666666666667 Precision = 0.9870537958773253 Recall = 0.9866613311991465 F1 Score = 0.9867238562091504

Exercise 8

Exercise 9

Exercise 10

Blank space for trying things out.