

```
In [1]: import pandas as pd
import numpy as np
import re
import nltk
import seaborn as sn
import gensim
import matplotlib.pyplot as plt
```

```
In [2]: import sklearn
from sklearn import preprocessing
from sklearn.preprocessing import OneHotEncoder
from sklearn import model_selection
from sklearn.model_selection import train_test_split
import re
import tensorflow as tf
import keras
```

```
In [3]: from tensorflow.keras.preprocessing.text import Tokenizer
from tensorflow.keras.callbacks import EarlyStopping
from tensorflow.keras.models import load_model
from tensorflow.keras.layers import Dense, Embedding
from tensorflow.keras.models import Sequential
from tensorflow.keras.preprocessing.sequence import pad_sequences
```

```
In [4]: import contractions
```

```
In [5]: from nltk.corpus import stopwords
from nltk.stem import PorterStemmer
from nltk.tokenize import word_tokenize
from nltk.stem import WordNetLemmatizer
import contractions
import nltk
import re
nltk.download('stopwords')
from sklearn.naive_bayes import MultinomialNB
from sklearn.pipeline import Pipeline
from sklearn.feature_extraction.text import TfidfTransformer
from sklearn.linear_model import SGDClassifier
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import classification_report
from sklearn.feature_extraction.text import CountVectorizer
import spacy
```

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

```
In [6]: df = pd.read_csv("C:\Code\D213\Task two\IMDB data - Sheet1.csv")
```

```
In [7]: df
```

```
Out[7]:
```

	text	label
0	A very, very, very slow-moving, aimless movie ...	0

1	Not sure who was more lost - the flat characte...	0
2	Attempting artiness with black & white and cle...	0
3	Very little music or anything to speak of.	0
4	The best scene in the movie was when Gerardo i...	1
...	...	...
743	I just got bored watching Jessica Lange take h...	0
744	Unfortunately, any virtue in this film's produ...	0
745	In a word, it is embarrassing.	0
746	Exceptionally bad!	0
747	All in all its an insult to one's intelligence...	0

748 rows × 2 columns

```
In [8]: df.dtypes
```

```
Out[8]: text      object
label      int64
dtype: object
```

```
In [9]: lemma = WordNetLemmatizer()
def clean_text(text):
    text = re.sub('[^A-Za-z0-9]', ' ', text)
    text = text.lower()
    text = contractions.fix(text)
    text = word_tokenize(text)
    text = [lemma.lemmatize(word) for word in text if not word in stopwords.words('engl-
text = ' '.join(text)
    return text

df['clean_text'] = df['text'].apply(lambda x : clean_text(x))
```

```
In [10]: df
```

```
Out[10]:
```

	text	label	clean_text
0	A very, very, very slow-moving, aimless movie ...	0	slow moving aimless movie distressed drifting ...
1	Not sure who was more lost - the flat characte...	0	sure lost flat character audience nearly half ...
2	Attempting artiness with black & white and cle...	0	attempting artiness black white clever camera ...
3	Very little music or anything to speak of.	0	little music anything speak
4	The best scene in the movie was when Gerardo i...	1	best scene movie gerardo trying find song keep...
...	...	...	...
743	I just got bored watching Jessica Lange take h...	0	got bored watching jessica lange take clothes
744	Unfortunately, any virtue in this film's produ...	0	unfortunately virtue film production work lost...
745	In a word, it is embarrassing.	0	word embarrassing
746	Exceptionally bad!	0	exceptionally bad
747	All in all its an insult to one's intelligence...	0	insult one intelligence huge waste money

```
In [11]: #dropping original text column
df = df.drop(['text'], axis = 1)
```

```
In [12]: #exporting cleaned data
df.to_csv('cleaned_data.csv')
```

```
In [13]: def buildDictionary(texts):
        """
        Build the dictionary of words where key is the word and value is the index.
        """
        hashmap = {}
        for text in texts:
            for word in text.split():
                hashmap[word] = hashmap.get(word, 0) + 1
        return {w:i+1 for i, w in enumerate(list(hashmap.keys()))}
```

```
In [14]: dictionary = buildDictionary(df['clean_text'])
```

```
In [15]: print(dictionary)
```

```
{'slow': 1, 'moving': 2, 'aimless': 3, 'movie': 4, 'distressed': 5, 'drifting': 6, 'young': 7, 'man': 8, 'sure': 9, 'lost': 10, 'flat': 11, 'character': 12, 'audience': 13, 'nearly': 14, 'half': 15, 'walked': 16, 'attempting': 17, 'artiness': 18, 'black': 19, 'white': 20, 'clever': 21, 'camera': 22, 'angle': 23, 'disappointed': 24, 'became': 25, 'even': 26, 'ridiculous': 27, 'acting': 28, 'poor': 29, 'plot': 30, 'line': 31, 'almost': 32, 'non': 33, 'existent': 34, 'little': 35, 'music': 36, 'anything': 37, 'speak': 38, 'best': 39, 'scene': 40, 'gerardo': 41, 'trying': 42, 'find': 43, 'song': 44, 'keep': 45, 'running': 46, 'head': 47, 'rest': 48, 'lack': 49, 'art': 50, 'charm': 51, 'meaning': 52, 'emptiness': 53, 'work': 54, 'guess': 55, 'empty': 56, 'wasted': 57, 'two': 58, 'hour': 59, 'saw': 60, 'today': 61, 'thought': 62, 'good': 63, 'effort': 64, 'message': 65, 'kid': 66, 'bit': 67, 'predictable': 68, 'loved': 69, 'casting': 70, 'jimmy': 71, 'buffett': 72, 'science': 73, 'teacher': 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```

```
In [16]: dictionary_list = [ ]
         for i in dictionary:
             dictionary_list.append(i)
```

```
In [17]: dictionary_df = pd.DataFrame(dictionary_list)
```

```
In [18]: dictionary_df
```

```
Out[18]:
```

	0
0	slow
1	moving
2	aimless
3	movie
4	distressed
...	...
2740	jessice
2741	clothes
2742	virtue
2743	regrettable
2744	exceptionally

2745 rows × 1 columns

```
In [19]: col_names = ['word', 'count']
```

```
In [20]: value_counts = dictionary_df.value_counts()
         value_count_df = pd.DataFrame(value_counts)
```

```
In [21]: print(value_count_df)
```

	0
0	
0	1
prelude	1
practical	1
practically	1
pray	1
...	..
feeling	1

```
feisty      1
fellowes    1
felt        1
zombiez     1
```

```
[2745 rows x 1 columns]
```

```
In [22]: X = np.array(df['clean_text'])
        Y = df['label'].values
```

```
In [23]: X_train, x_test, y_train, y_test = train_test_split(X,Y, test_size = 0.20)
```

```
In [24]: y_train = pd.Series(y_train)
        y_test = pd.Series(y_test)
```

```
In [25]: from keras.utils.np_utils import to_categorical
        y_train = to_categorical(y_train, num_classes = 2)
        y_test = to_categorical(y_test, num_classes = 2)
```

```
In [26]: pd.DataFrame(X_train).to_csv('x_train.csv')
        pd.DataFrame(x_test).to_csv('x_test.csv')
        pd.DataFrame(y_train).to_csv('y_train.csv')
        pd.DataFrame(y_test).to_csv('y_test.csv')
```

## Model initialization

```
In [27]: vocab_size = 5000
        oov_tok = "<oov>"
        embedding_dim = 16
        max_length = 50
        trunc_type = 'post'
        padding_type = 'post'
```

```
In [28]: tokenizer = Tokenizer(num_words=vocab_size, oov_token = oov_tok)
        tokenizer.fit_on_texts(X_train)
        word_index = tokenizer.word_index
```

```
In [29]: #applying padding to data
        sequences_train = tokenizer.texts_to_sequences(X_train)
        padded_train = pad_sequences(sequences_train, maxlen= max_length, padding = 'post', trunc
```

```
In [30]: #applying padding to data
        sequences_test = tokenizer.texts_to_sequences(x_test)
        padded_test = pad_sequences(sequences_test, maxlen= max_length, padding = 'post', trunca
```

```
In [31]: training_padded = np.array(padded_train)
        training_label = np.array(y_train)
        test_padded = np.array(padded_test)
        test_label = np.array(y_test)
```

```
In [55]: training_padded[1]
```

```
Out[55]: array([[326, 327, 492,    9, 238, 867, 144, 868,    0,    0,    0,    0,    0,
          0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
          0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0]])
```

```
In [32]: print(len(training_padded))
print(len(training_label))
print(len(test_padded))
print(len(test_label))
```

```
598
598
150
150
```

```
In [33]: pd.DataFrame(training_padded).to_csv('training_padded.csv')
pd.DataFrame(training_label).to_csv('training_label.csv')
pd.DataFrame(test_padded).to_csv('test_padded.csv')
pd.DataFrame(test_label).to_csv('test_label.csv')
```

```
In [34]: # WORD2VEC
W2V_SIZE = 300
W2V_WINDOW = 7
W2V_EPOCH = 32
W2V_MIN_COUNT = 10
```

```
In [35]: # KERAS
SEQUENCE_LENGTH = 300
EPOCHS = 8
BATCH_SIZE = 1024
```

```
In [36]: # SENTIMENT
POSITIVE = "POSITIVE"
NEGATIVE = "NEGATIVE"
NEUTRAL = "NEUTRAL"
SENTIMENT_THRESHOLDS = (0.4, 0.7)
```

```
In [37]: # EXPORT
KERAS_MODEL = "model.h5"
WORD2VEC_MODEL = "model.w2v"
TOKENIZER_MODEL = "tokenizer.pkl"
ENCODER_MODEL = "encoder.pkl"
```

```
In [38]: w2v_model = gensim.models.word2vec.Word2Vec(
                                                window=W2V_WINDOW,
                                                min_count=W2V_MIN_COUNT,
                                                workers=8)
```

```
In [39]: words = w2v_model.wv.index_to_key
```

```
In [40]: vocab_size = len(tokenizer.word_index) + 1
print(vocab_size)
```

```
In [41]: activation = 'softmax'
         loss = 'categorical_crossentropy'
         optimizer = 'adam'
         num_epochs = 20
```

```
In [42]: early_stopping_monitor = EarlyStopping(patience = 2)
```

```
In [43]: model = tf.keras.Sequential([
            tf.keras.layers.Embedding(vocab_size, embedding_dim, input_length=max_length),
            tf.keras.layers.GlobalAveragePooling1D(),
            tf.keras.layers.Dense(100, activation = 'relu'),
            tf.keras.layers.Dense(50, activation = 'relu'),
            tf.keras.layers.Dense(2, activation=activation)
        ])
```

```
In [44]: model.compile(loss = loss, optimizer = optimizer, metrics=['accuracy'])
         model.summary()
```

Model: "sequential"

Layer (type)	Output Shape	Param #
=====		
embedding (Embedding)	(None, 50, 16)	39696
global_average_pooling1d (GlobalAveragePooling1D)	(None, 16)	0
dense (Dense)	(None, 100)	1700
dense_1 (Dense)	(None, 50)	5050
dense_2 (Dense)	(None, 2)	102
=====		
Total params: 46,548		
Trainable params: 46,548		
Non-trainable params: 0		
=====		

```
In [45]: history = model.fit(training_padded, training_label, batch_size = 32, epochs = num_epochs,
                             validation_split = 0.3, callbacks = [early_stopping_monitor], verbose=0)
```

```
Epoch 1/20
14/14 [=====] - 1s 13ms/step - loss: 0.6933 - accuracy: 0.4952
- val_loss: 0.6929 - val_accuracy: 0.5111
Epoch 2/20
14/14 [=====] - 0s 4ms/step - loss: 0.6924 - accuracy: 0.5215 -
val_loss: 0.6928 - val_accuracy: 0.5111
Epoch 3/20
14/14 [=====] - 0s 3ms/step - loss: 0.6914 - accuracy: 0.5215 -
val_loss: 0.6927 - val_accuracy: 0.5111
Epoch 4/20
14/14 [=====] - 0s 3ms/step - loss: 0.6905 - accuracy: 0.5215 -
val_loss: 0.6918 - val_accuracy: 0.5111
Epoch 5/20
14/14 [=====] - 0s 3ms/step - loss: 0.6881 - accuracy: 0.5215 -
val_loss: 0.6906 - val_accuracy: 0.5111
Epoch 6/20
```

```

14/14 [=====] - 0s 3ms/step - loss: 0.6855 - accuracy: 0.6268 -
val_loss: 0.6885 - val_accuracy: 0.5111
Epoch 7/20
14/14 [=====] - 0s 3ms/step - loss: 0.6746 - accuracy: 0.5287 -
val_loss: 0.6845 - val_accuracy: 0.5111
Epoch 8/20
14/14 [=====] - 0s 3ms/step - loss: 0.6540 - accuracy: 0.7990 -
val_loss: 0.6733 - val_accuracy: 0.7611
Epoch 9/20
14/14 [=====] - 0s 3ms/step - loss: 0.6163 - accuracy: 0.7416 -
val_loss: 0.6557 - val_accuracy: 0.7000
Epoch 10/20
14/14 [=====] - 0s 3ms/step - loss: 0.5505 - accuracy: 0.8780 -
val_loss: 0.6273 - val_accuracy: 0.6889
Epoch 11/20
14/14 [=====] - 0s 3ms/step - loss: 0.4429 - accuracy: 0.9474 -
val_loss: 0.5723 - val_accuracy: 0.7944
Epoch 12/20
14/14 [=====] - 0s 3ms/step - loss: 0.3315 - accuracy: 0.9522 -
val_loss: 0.5255 - val_accuracy: 0.7889
Epoch 13/20
14/14 [=====] - 0s 3ms/step - loss: 0.2306 - accuracy: 0.9761 -
val_loss: 0.5000 - val_accuracy: 0.7611
Epoch 14/20
14/14 [=====] - 0s 3ms/step - loss: 0.1673 - accuracy: 0.9665 -
val_loss: 0.5164 - val_accuracy: 0.7278
Epoch 15/20
14/14 [=====] - 0s 3ms/step - loss: 0.1332 - accuracy: 0.9713 -
val_loss: 0.5748 - val_accuracy: 0.6667

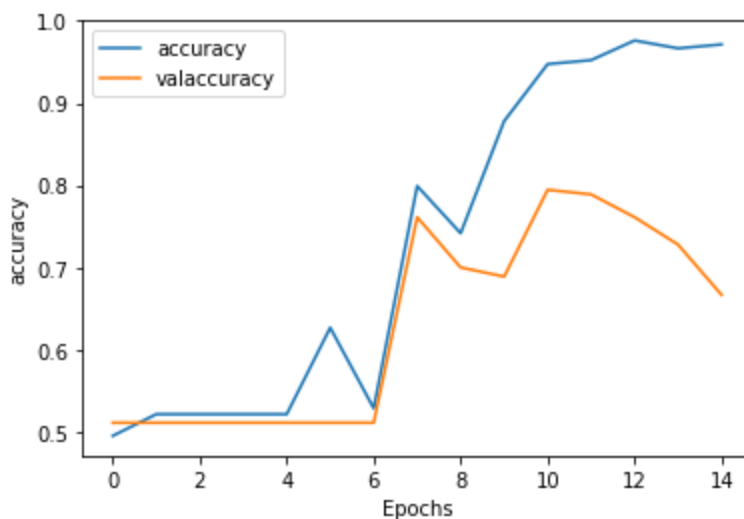
```

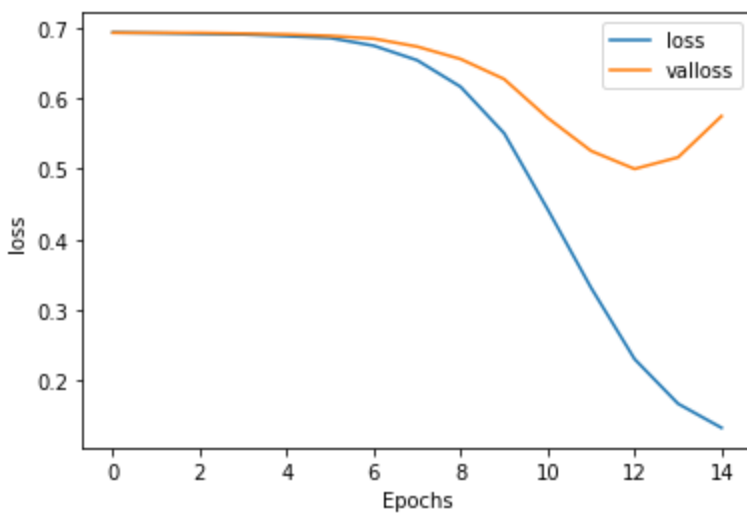
In [46]:

```

def plot_graphs(history, string):
    plt.plot(history.history[string])
    plt.plot(history.history['val_'+string])
    plt.xlabel('Epochs')
    plt.ylabel(string)
    plt.legend([string, 'val'+string])
    plt.show()
plot_graphs(history, 'accuracy')
plot_graphs(history, 'loss')

```





```
In [47]: #getting accuracy for testing set
score = model.evaluate(test_padded, test_label, verbose=0)
print(f'Test loss: {score[0]} / Test accuracy: {score[1]}')
```

Test loss: 0.6051126718521118 / Test accuracy: 0.6800000071525574

```
In [48]: #getting accuracy for training set for comparison
score = model.evaluate(training_padded, training_label, verbose=0)
print(f'Test loss: {score[0]} / Test accuracy: {score[1]}')
```

Test loss: 0.2785325050354004 / Test accuracy: 0.8545150756835938

```
In [49]: model.save('SentimentAnalysisModel.h5')

my_model = load_model('SentimentAnalysisModel.h5')
```

```
In [50]: predictions = my_model.predict(test_padded)
```

```
In [55]: i = 24
print('Predicted review text:', x_test[i], "\n")
print('Predicted:', 'Negative' if predictions[i][0] >= 0.5 else 'Positive', 'review')
print('Actual:', 'Negative' if y_test[i][1] == 0 else 'Positive', 'review' )
```

Predicted review text: filmiing le expansive

Predicted: Negative review  
Actual: Negative review

```
In [56]: i = 67
print('Predicted review text:', x_test[i], "\n")
print('Predicted:', 'Negative' if predictions[i][0] >= 0.5 else 'Positive', 'review')
print('Actual:', 'Negative' if y_test[i][1] == 0 else 'Positive', 'review' )
```

Predicted review text: movie join revenge boogeyman zombies part hellish trinity horror film

Predicted: Negative review  
Actual: Negative review

```
In [58]: i = 12
print('Predicted review text:', x_test[i], "\n")
```



```
print('Predicted:', 'Negative' if predictions[i][0] >= 0.5 else 'Positive', 'review')  
print('Actual:', 'Negative' if y_test[i][1] == 0 else 'Positive', 'review' )
```

Predicted review text: directing sloppy best

Predicted: Negative review

Actual: Negative review