

1.0 Importing Required Library

```
In [0]: import os
import numpy as np
import pandas as pd
import sqlite3

from collections import Counter
from keras.datasets import imdb
from keras.models import Sequential
from keras.layers import Dense, Dropout, BatchNormalization
from keras.layers import LSTM
from keras.layers.embeddings import Embedding
from keras.preprocessing import sequence

from matplotlib import pyplot as plt
from prettytable import PrettyTable
```

Using TensorFlow backend.

2.0 Importing DataSet

```
In [0]: from google.colab import drive
drive.mount('/content/drive')
```

Go to this URL in a browser: https://accounts.google.com/o/oauth2/auth?client_id=947318989803-6bn6qk8qdgf4n4g3pfee6491hc0brc4i.apps.googleusercontent.com&redirect_uri=urn%3Aietf%3Aawg%3Aoauth%3A2.0%3Aaob&scope=email%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fdocs.test%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fdrive.photos.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fpeopleapi.readonly&response_type=code

Enter your authorization code:

.....

Mounted at /content/drive

```
In [0]: if os.path.isfile("/content/drive/My Drive/Colab Notebooks/final.sqlite"):
    conn=sqlite3.connect("/content/drive/My Drive/Colab Notebooks/final.sqlit
e")
    Data=pd.read_sql_query("select * from Reviews where Score!=3",conn)
    conn.close()
else :
    print("Error Importing the file")
```

```
In [0]: Data=Data.sample(100000)
```

In [0]: `Data.head(2)`

Out[0]:

	index	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	Score
	355679	466759	504717	B007I7YZJK	A27ULPK1RGCNU6	Picky CO Mom	2
	157277	216333	234436	B001BDI0QQ	AN5T6MAD6FC5I	Legal&Sane	0

In [0]: `from sklearn.model_selection import train_test_split`

```
X_train,X_test,Y_train,Y_test = train_test_split(Data['CleanedText'],Data['Score'],test_size=0.33)
```

In [0]: `print("Train Data Shape ")`
`print(X_train.shape,Y_train.shape)`

`print("\nTest Data Shape ")`
`print(X_test.shape,Y_test.shape)`

Train Data Shape
(67000,) (67000,)

Test Data Shape
(33000,) (33000,)

3.0 Text Preprocessing

These Function basically prepares the data to be loaded and processed similar to IMDB data in datasets.

1. A Vocabulary is created with all the words and it's Frequencies.
2. Top 'num_words' are selected and another dictionary 'word_idx' is created to store the ranks of the corresponding words.
3. Finally, train and test data (x's & y's) are returned to the caller.

```
In [0]: vocab = Counter()
word_idx = dict()

def load_data(X_train , X_test, num_words=5000):
    cnt=1
    max_sent_len = 0

    for review in X_train:
        if len(review.split()) > max_sent_len:
            max_sent_len = len(review.split())
        for word in review.split():
            vocab[word] += 1

    for x,y in vocab.most_common(num_words):
        word_idx[x] = cnt
        cnt += 1

    def transform_data(data):
        data_idx = []
        for review in data:
            temp_idx = []
            for word in review.split():
                if 0 < word_idx.get(word, 0) <= num_words:
                    temp_idx.append(word_idx[word])
            data_idx.append(temp_idx)

        return data_idx

    x_train = transform_data(X_train)
    x_test = transform_data(X_test)

    return x_train , x_test
```

```
In [0]: %%time
num_words = 5000
x_train ,x_test = load_data(X_train , X_test,num_words=num_words)
```

CPU times: user 3.03 s, sys: 16.2 ms, total: 3.05 s
Wall time: 3.07 s

```
In [0]: print(f'Most Common Words :-\n{vocab.most_common(10)}')  
        print(f'\nWord Ranks :-\n{word_idx}')
```

Most Common Words :-

```
[('like', 31265), ('tast', 29754), ('flavor', 23963), ('good', 23443), ('use', 21977), ('product', 21751), ('one', 21464), ('love', 21150), ('great', 20291), ('tri', 19375)]
```

Word Ranks :-

```
{'like': 1, 'tast': 2, 'flavor': 3, 'good': 4, 'use': 5, 'product': 6, 'one': 7, 'love': 8, 'great': 9, 'tri': 10, 'tea': 11, 'coffe': 12, 'make': 13, 'get': 14, 'food': 15, 'would': 16, 'buy': 17, 'time': 18, 'realli': 19, 'eat': 20, 'amazon': 21, 'order': 22, 'dont': 23, 'much': 24, 'price': 25, 'also': 26, 'find': 27, 'littl': 28, 'bag': 29, 'dog': 30, 'even': 31, 'best': 32, 'drink': 33, 'well': 34, 'store': 35, 'ive': 36, 'better': 37, 'chocol': 38, 'mix': 39, 'box': 40, 'day': 41, 'water': 42, 'recommend': 43, 'year': 44, 'look': 45, 'sugar': 46, 'sweet': 47, 'first': 48, 'want': 49, 'give': 50, 'packag': 51, 'cup': 52, 'brand': 53, 'purchas': 54, 'found': 55, 'think': 56, 'work': 57, 'high': 58, 'made': 59, 'way': 60, 'bought': 61, 'treat': 62, 'enjoy': 63, 'say': 64, 'need': 65, 'delici': 66, 'know': 67, 'nice': 68, 'thing': 69, 'two': 70, 'differ': 71, 'review': 72, 'sinc': 73, 'could': 74, 'bit': 75, 'cat': 76, 'add': 77, 'pack': 78, 'favorit': 79, 'lot': 80, 'still': 81, 'keep': 82, 'mani': 83, 'come': 84, 'cant': 85, 'perfect': 86, 'snack': 87, 'never': 88, 'stuff': 89, 'hot': 90, 'got': 91, 'take': 92, 'milk': 93, 'ingredi': 94, 'free': 95, 'oil': 96, 'ship': 97, 'fresh': 98, 'put': 99, 'sauc': 100, 'everi': 101, 'bar': 102, 'cooki': 103, 'someth': 104, 'without': 105, 'seem': 106, 'alway': 107, 'organ': 108, 'right': 109, 'wonder': 110, 'local': 111, 'ever': 112, 'didnt': 113, 'qualiti': 114, 'natur': 115, 'easi': 116, 'back': 117, 'less': 118, 'doesnt': 119, 'contain': 120, 'cook': 121, 'enough': 122, 'dri': 123, 'last': 124, 'smell': 125, 'bottl': 126, 'hard': 127, 'sure': 128, 'healthi': 129, 'see': 130, 'regular': 131, 'small': 132, 'long': 133, 'definit': 134, 'month': 135, 'whole': 136, 'calori': 137, 'feel': 138, 'salt': 139, 'green': 140, 'ad': 141, 'candi': 142, 'bad': 143, 'size': 144, 'howev': 145, 'actual': 146, 'open': 147, 'though': 148, 'old': 149, 'start': 150, 'serv': 151, 'far': 152, 'happi': 153, 'quick': 154, 'problem': 155, 'help': 156, 'tasti': 157, 'bean': 158, 'strong': 159, 'quit': 160, 'thought': 161, 'pretti': 162, 'butter': 163, 'excel': 164, 'item': 165, 'thank': 166, 'cereal': 167, 'big': 168, 'fruit': 169, 'new': 170, 'go': 171, 'peopl': 172, 'rice': 173, 'anoth': 174, 'usual': 175, 'textur': 176, 'chicken': 177, 'receiv': 178, 'groceri': 179, 'arriv': 180, 'diet': 181, 'almost': 182, 'real': 183, 'coconut': 184, 'famili': 185, 'per': 186, 'may': 187, 'amount': 188, 'anyth': 189, 'chip': 190, 'kid': 191, 'worth': 192, 'week': 193, 'save': 194, 'around': 195, 'blend': 196, 'friend': 197, 'sever': 198, 'can': 199, 'company': 200, 'expens': 201, 'low': 202, 'star': 203, 'ice': 204, 'peanut': 205, 'case': 206, 'fat': 207, 'expect': 208, 'came': 209, 'disappoint': 210, 'kind': 211, 'that': 212, 'bread': 213, 'top': 214, 'varieti': 215, 'vanilla': 216, 'chew': 217, 'light': 218, 'morn': 219, 'dark': 220, 'away': 221, 'roast': 222, 'soup': 223, 'reason': 224, 'minut': 225, 'recip': 226, 'bake': 227, 'avail': 228, 'half': 229, 'read': 230, 'said': 231, 'prefer': 232, 'full': 233, 'chees': 234, 'home': 235, 'pleas': 236, 'spice': 237, 'powder': 238, 'gluten': 239, 'piec': 240, 'meal': 241, 'honey': 242, 'wont': 243, 'bitte': 244, 'hope': 245, 'cost': 246, 'proabl': 247, 'black': 248, 'health': 249, 'protein': 250, 'brew': 251, 'theyr': 252, 'absolut': 253, 'gift': 254, 'leav': 255, 'juic': 256, 'might': 257, 'abl': 258, 'husband': 259, 'ill': 260, 'let': 261, 'your': 262, 'syrup': 263, 'decid': 264, 'especi': 265, 'noth': 266, 'money': 267, 'hand': 268, 'nut': 269, 'amaz': 270, 'fill': 271, 'pasta': 272, 'deal': 273, 'cream': 274, 'instead': 275, 'type': 276, 'white': 277, 'isnt': 278, 'larg': 279, 'fact': 280, 'sweeten': 281, 'three': 282, 'place': 283, 'care': 284, 'carri': 285, 'jar': 286, 'compar': 287, 'surpris': 288, 'breakfast': 289, 'fine': 290, 'wish': 291, 'chang': 292, 'extra': 293, 'cracke
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```
In [0]: max_review_length = 824
x_train = sequence.pad_sequences(x_train, maxlen=max_review_length)
x_test = sequence.pad_sequences(x_test, maxlen=max_review_length)

print(x_train.shape, x_test.shape)
```

```
(67000, 824) (33000, 824)
```

4.0 Plot Function

```
In [0]: def plot_loss(x, vy, ty, xlabel='Epoch', ylabel='Binary Crossentropy Loss'):
_, = plt.plot(x, vy, 'b', label="Validation Loss")
_, = plt.plot(x, ty, 'r', label="Train Loss")
plt.xlabel(xlabel)
plt.ylabel(ylabel)

plt.grid()
plt.legend()
plt.grid()
plt.show()
```

```
In [0]: pt = PrettyTable()
pt.field_names = ['RNN Architecture', 'Mean Train Accuracy', 'Mean Validation Accuracy', 'Test Accuracy']
```

5.0 Model

```

In [0]: %%time
# create the model
def get_LSTM(embedding_vector_length = 32):
    model = Sequential()
    model.add(Embedding(num_words+1, embedding_vector_length, input_length=max
_review_length))

    model.add(LSTM(10, dropout=0.25, recurrent_dropout=0.25))

    model.add(Dense(1, activation='relu', kernel_initializer='he_normal'))
    model.compile(loss='binary_crossentropy', optimizer='adam', metrics=['accu
racy'])
    print(model.summary())

    return model

model = get_LSTM()
epochs = 10
history = model.fit(x_train, Y_train, epochs=epochs, batch_size=64, validation
_split=0.3)

# Final evaluation of the model
score = model.evaluate(x_test, Y_test, verbose=0)
print('Test loss:', score[0])
print('Test accuracy:', score[1])

x = list(range(1, epochs+1))
vy = history.history['val_loss']
ty = history.history['loss']
plot_loss(x, vy, ty)

pt.add_row(['1-layered LSTM+Dropouts', sum(history.history['acc'])/len(history
.history['acc']), \
            sum(history.history['val_acc'])/len(history.history['val_acc']), s
core[1]])

```


Layer (type)	Output Shape	Param #
embedding_2 (Embedding)	(None, 824, 32)	160032
lstm_2 (LSTM)	(None, 10)	1720
dense_2 (Dense)	(None, 1)	11
Total params: 161,763		
Trainable params: 161,763		
Non-trainable params: 0		

None

Train on 46900 samples, validate on 20100 samples

Epoch 1/10

46900/46900 [=====] - 424s 9ms/step - loss: 0.6153 - acc: 0.7331 - val_loss: 0.4339 - val_acc: 0.8407

Epoch 2/10

46900/46900 [=====] - 423s 9ms/step - loss: 0.4282 - acc: 0.8585 - val_loss: 0.4062 - val_acc: 0.8735

Epoch 3/10

46900/46900 [=====] - 422s 9ms/step - loss: 0.4445 - acc: 0.8150 - val_loss: 0.4057 - val_acc: 0.8641

Epoch 4/10

46900/46900 [=====] - 423s 9ms/step - loss: 0.3973 - acc: 0.8705 - val_loss: 0.4177 - val_acc: 0.8669

Epoch 5/10

46900/46900 [=====] - 420s 9ms/step - loss: 0.3655 - acc: 0.8765 - val_loss: 0.3881 - val_acc: 0.8690

Epoch 6/10

46900/46900 [=====] - 420s 9ms/step - loss: 0.3486 - acc: 0.8806 - val_loss: 0.4529 - val_acc: 0.8725

Epoch 7/10

46900/46900 [=====] - 424s 9ms/step - loss: 0.3199 - acc: 0.8842 - val_loss: 0.4524 - val_acc: 0.8762

Epoch 8/10

46900/46900 [=====] - 420s 9ms/step - loss: 0.3497 - acc: 0.8696 - val_loss: 0.3902 - val_acc: 0.8767

Epoch 9/10

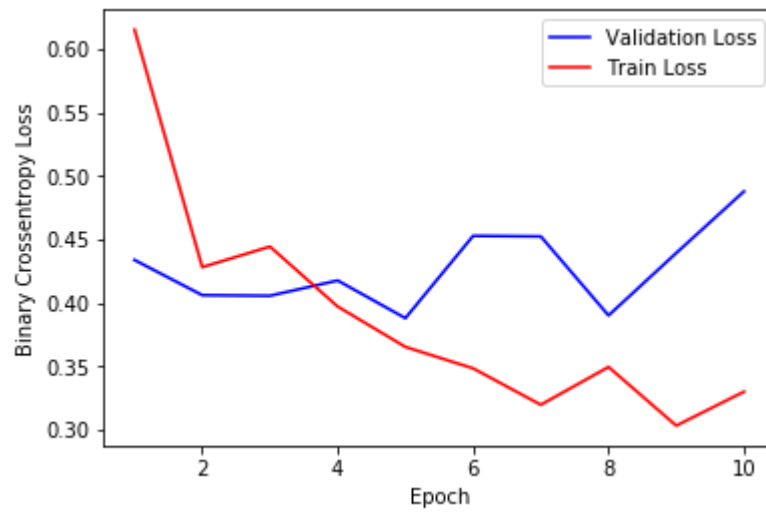
46900/46900 [=====] - 418s 9ms/step - loss: 0.3035 - acc: 0.8904 - val_loss: 0.4394 - val_acc: 0.8800

Epoch 10/10

46900/46900 [=====] - 424s 9ms/step - loss: 0.3302 - acc: 0.8771 - val_loss: 0.4879 - val_acc: 0.8741

Test loss: 0.46329158995368264

Test accuracy: 0.8739393939393939



CPU times: user 2h 3min 4s, sys: 5min 51s, total: 2h 8min 56s
Wall time: 1h 11min 16s

5.1 2-Layered LSTM Architecture

```

In [0]: %%time
# create the model
def get_LSTM(embedding_vector_length = 32):
    model = Sequential()
    model.add(Embedding(num_words+1, embedding_vector_length, input_length=max
_review_length))

    model.add(LSTM(10, return_sequences=True, dropout=0.3, recurrent_dropout=
0.3))
    model.add(LSTM(2, dropout=0.25, recurrent_dropout=0.25))

    model.add(Dense(1, activation='relu', kernel_initializer='he_normal'))
    model.compile(loss='binary_crossentropy', optimizer='adam', metrics=['accu
racy'])
    print(model.summary())

    return model

model = get_LSTM()
epochs = 5
history = model.fit(x_train, Y_train, epochs=epochs, batch_size=64, validation
_split=0.3)

# Final evaluation of the model
score = model.evaluate(x_test, Y_test, verbose=0)
print('Test loss:', score[0])
print('Test accuracy:', score[1])

x = list(range(1, epochs+1))
vy = history.history['val_loss']
ty = history.history['loss']
plot_loss(x, vy, ty)

pt.add_row(['2-layered LSTM+Dropouts', sum(history.history['acc'])/len(history
.history['acc']), \
          sum(history.history['val_acc'])/len(history.history['val_acc']), s
core[1]])

print(pt)

```

Layer (type)	Output Shape	Param #
embedding_2 (Embedding)	(None, 824, 32)	160032
lstm_3 (LSTM)	(None, 824, 10)	1720
lstm_4 (LSTM)	(None, 2)	104
dense_2 (Dense)	(None, 1)	3
Total params: 161,859		
Trainable params: 161,859		
Non-trainable params: 0		

None

Train on 170795 samples, validate on 73199 samples

Epoch 1/5

170795/170795 [=====] - 2965s 17ms/step - loss: 0.3636 - acc: 0.8663 - val_loss: 0.3011 - val_acc: 0.8963

Epoch 2/5

170795/170795 [=====] - 3009s 18ms/step - loss: 0.2726 - acc: 0.9061 - val_loss: 0.2483 - val_acc: 0.9094

Epoch 3/5

170795/170795 [=====] - 2981s 17ms/step - loss: 0.2586 - acc: 0.9103 - val_loss: 0.2504 - val_acc: 0.9098

Epoch 4/5

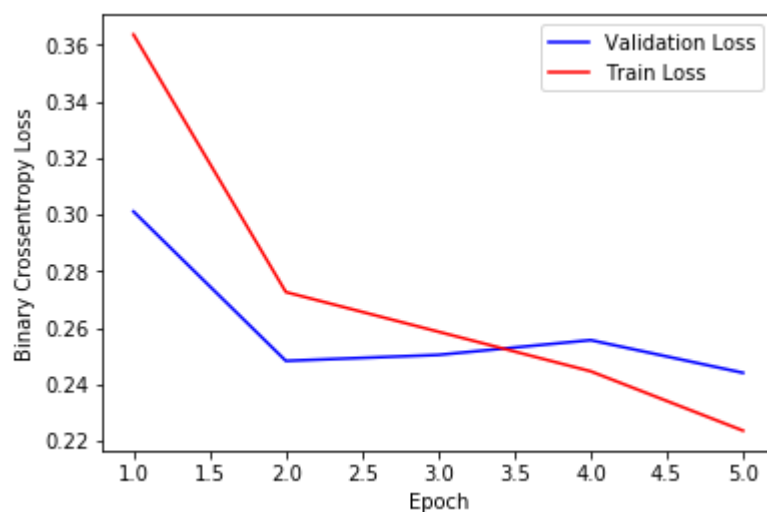
170795/170795 [=====] - 3013s 18ms/step - loss: 0.2446 - acc: 0.9169 - val_loss: 0.2556 - val_acc: 0.9153

Epoch 5/5

170795/170795 [=====] - 3006s 18ms/step - loss: 0.2236 - acc: 0.9217 - val_loss: 0.2441 - val_acc: 0.9178

Test loss: 0.24738389199455993

Test accuracy: 0.917912745368242



```

+-----+-----+-----+
|      RNN Architecture      | Mean Train Accuracy | Mean Validation Accuracy |
| Test Accuracy             |                     |                          |
+-----+-----+-----+
| 2-layered LSTM+Dropouts | 0.8862976082448479 | 0.898837415818857      |
| 0.9099162069291064      |                     |                          |
| 2-layered LSTM+Dropouts | 0.90428174126961   | 0.9097091490376276     |
| 0.917912745368242      |                     |                          |
+-----+-----+-----+
CPU times: user 7h 40min 7s, sys: 25min 23s, total: 8h 5min 31s
Wall time: 4h 17min 44s

```

6.0 Conclusion

1. I have used 243K data point for multi layered LSTM but for singled layered 100k data point is used.
2. Single Layered Architecture is working well .
3. Multi Layered Architecture is also working well .