Model Development Phase Template

Date	15 March 2024
Team ID	740678
Project Title	Amazon Kindle Store Reviews Analysis
Maximum Marks	10 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

Initial Model Training Code (5 marks):

```python
#import load_model function
from tensorflow.keras.models import load_model
#load our saved model file
model=tf.keras.models.load_model("amazo.h5")
#import countvecorizer
from sklearn.feature_extraction.text import CountVectorizer
import joblib
#load saved bag of word model file
loaded=CountVectorizer(decode_error='replace',vocabulary=joblib.load('amazo.save'))
```

```python
d="Writing was good"
d=d.split('delimiter')
result=model.predict(loaded.transform(d))
print(result)
prediction=result>0.5
#print(prediction)
if prediction[0] == False:
    print("Positive review")
elif prediction[0] == True:
    print("Negative review")
```

Model Validation and Evaluation Report (5 marks):

Model	Summary	Training and Validation Performance Metrics
ALL MODELS	```#training the model
model.fit(x_train,y_train,epochs=20,batch_size=32)```	