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In [ ]: # Importing important libraries
         import numpy as np
         import pandas as pd
         import re # library for using regular expressions
         from nltk.corpus import stopwords
         from nltk.stem.porter import PorterStemmer # from stemming a word - reducting wo
         from sklearn.feature_extraction.text import TfidfVectorizer # converting text da
         import nltk
         nltk.download('stopwords')
         print('All important libraries are imported successfully')
In [4]: new data = "@switchfoot http://twitpic.com/2y1zl - Awww, that's a bummer. You s
In [6]: #Preprocessing and Stemming the Text
         portStem = PorterStemmer()
         def stemming(content):
             stemmed_content = re.sub('[^a-zA-Z]',' ', content)
             stemmed content = stemmed content.lower()
             stemmed_content = stemmed_content.split()
             stemmed content = [portStem.stem(word) for word in stemmed content if not wo
             stemmed_content = ' '.join(stemmed_content)
             return stemmed content
In [14]: processed_tweet = [stemming(new_data)]
         print(processed_tweet)
        ['switchfoot http twitpic com zl awww bummer shoulda got david carr third day']
In [17]: import pickle
In [24]: # Load the saved vectorizer
         with open('trained_vectorizer.pkl', 'rb') as f:
             vectorizer = pickle.load(f) # Load the vectorizer
In [25]: # Transform the new data using the Loaded vectorizer
         vectorized_tweet = vectorizer.transform(processed_tweet)
In [27]: # Loading the saved model
         loaded model = pickle.load(open('twitter sentiment analysis model.sav', 'rb'))
In [29]: prediction = loaded model.predict(vectorized tweet)
         print(prediction)
         if (prediction[0] == 0):
             print("Negative Tweet")
             print("Positive Tweet")
        [0]
        Negative Tweet
```