*# Import necessary libraries*

import numpy as np

import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

import missingno as msno

import warnings

warnings.filterwarnings(action='ignore')

*# Import NLTK and download required resources*

import nltk

from nltk.corpus import stopwords

from nltk.tokenize import word\_tokenize, sent\_tokenize

from nltk.stem import LancasterStemmer, WordNetLemmatizer

nltk.download('stopwords')

nltk.download('punkt')

nltk.download('wordnet')

*# Import other libraries*

import re

import string

import unicodedata

import contractions

from sklearn.feature\_extraction.text import CountVectorizer, TfidfVectorizer

import wordcloud

from wordcloud import STOPWORDS, WordCloud

import pandas as pd

from sklearn.model\_selection import train\_test\_split, StratifiedKFold

from sklearn.svm import LinearSVC

from sklearn.ensemble import RandomForestClassifier

from sklearn.model\_selection import cross\_val\_score

from sklearn.metrics import (

recall\_score,

accuracy\_score,

confusion\_matrix,

classification\_report,

f1\_score,

precision\_score,

precision\_recall\_fscore\_support

)

*# Set options for displaying data*

pd.set\_option("display.max\_columns", None)

pd.set\_option("display.max\_rows", 200)

df = pd.read\_csv('Tweets.csv')

df.head()

texts = [[word.lower() for word **in** text.split()] for text **in** df]

df.head()