SENTIMENT ANALYSIS FOR MARKETING

| PROJECT TITLE | SENTIMENT ANALYSIS FOR MAKETING |
|-------------------|---|
| SKILLS TAKEN AWAY | ❖ Python script❖ EDA❖ UI deployment |
| DOMAIN | FMCG[FAST MOVING CONSUMER GOODS] |

TRAINING THE MODEL

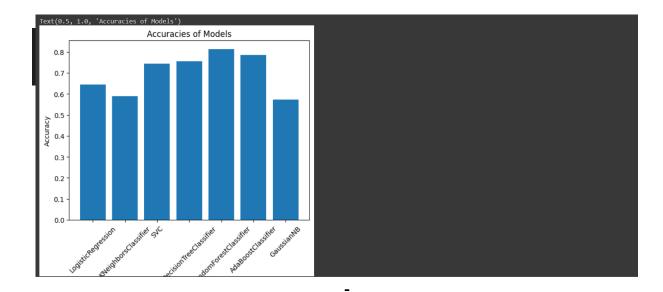
1.SPLITING THE DATA TO TRAIN AND TEST:

```
solitting the data into train and test
    df('clean_tweet']-df('text'].apply(lambda x: tweet_to_words(x))
    df('tweet_length')-dff('text'].apply(lambda x: clean_tweet_length(x))
    train_test_split(df,test_size=0.2,random_state=42)

[] train_clean_tweet=[]
    for tweets in train['clean_tweet']:
        train_clean_tweet.append(tweets)
    test_clean_tweet.append(tweets)
    test_clean_tweet.append(tweets)

[] from sklearn.feature=extraction.text import CountVectorizer
    v = CountVectorizer(analyzer = "word")
    train_features=v.fit_transform(train_clean_tweet)
    test_features=v.fit_transform(train_clean_tweet)

[] from sklearn.neighbors import togisticRegression
    from sklearn.neighbors import tweighborsclassifier
    from sklearn.neighbors import XW. NubXV
    from sklearn.ree import DecisionTreeclassifier
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import pickle
from sklearn.datasets import load_iris
from sklearn.ensemble import RandomForestClassifier

# Load a sample dataset
iris = load_iris()
x, y = iris.data, iris.target

# Create and train a machine learning model
model = RandomForestClassifier(n_estimators=100)
model.fit(x, y)

# Save the model to a file using pickle
with open('model.pkl', 'wb') as file:
    pickle.dump(model, file)
```