```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
df = pd.read csv('emails.csv')
df.isna().sum()
x = df.drop(['Prediction', 'Email No.'], axis=1)
y = df['Prediction']
from sklearn.model selection import train test split
x_train, x_test, y_train, y_test = train_test_split(x,y,test_size=0.2,random_state=30)
from sklearn.neighbors import KNeighborsClassifier
model = KNeighborsClassifier(n_neighbors=5)
model.fit(x_train, y_train)
y_pred = model.predict(x_test)
from sklearn.metrics import accuracy score, confusion matrix
accuracy = accuracy_score(y_test, y_pred)
from sklearn.svm import SVC
model = SVC(C=1.0, kernel='linear')
model.fit(x_train, y_train)
y_pred = model.predict(x_test)
from sklearn.metrics import accuracy score, confusion matrix
accuracy = accuracy_score(y_test, y_pred)
```

C parameter in SVM is Penalty parameter of the error term

The function of kernel is to take data as input and transform it into the required form

The goal of the SVM algorithm is to create the best line or decision boundary that can segregate ndimensional space into classes so that we can easily put the new data point in the correct category in the future. This best decision boundary is called a hyperplane.

Colab paid products - Cancel contracts here

✓ 0s completed at 9:50 PM

