import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import seaborn as sns

from sklearn.metrics import accuracy\_score,precision\_score,recall\_score,f1\_score

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

from sklearn.neighbors import KNeighborsClassifier

from sklearn.svm import SVC

from sklearn.metrics import ConfusionMatrixDisplay

from sklearn.metrics import confusion\_matrix,ConfusionMatrixDisplay

from sklearn.linear\_model import LinearRegression

from sklearn.metrics import classification\_report

from sklearn.metrics import mean\_squared\_error,mean\_absolute\_error

from sklearn.naive\_bayes import GaussianNB

from sklearn.tree import DecisionTreeClassifier,plot\_tree

from sklearn.preprocessing import LabelEncoder

from sklearn.ensemble import RandomForestRegressor

from sklearn.cluster import KMeans

from sklearn.metrics import silhouette\_score