* **Predict if a customer subscribes to a term deposit or not, when contacted by a marketing agent, by understanding the different features and performing predictive analytics using bank-additional-full.csv dataset.**
* import pandas as pd
* import numpy as np
* from sklearn.model\_selection import train\_test\_split
* from sklearn.svm import SVC
* from sklearn.preprocessing import LabelEncoder
* from sklearn.preprocessing import StandardScaler
* from sklearn.metrics import accuracy\_score, classification\_report
* import warnings
* warnings.filterwarnings("ignore")
* df = pd.read\_csv("bank.csv", delimiter = ";")
* df
* df\_num = df.select\_dtypes(["int","float"])
* df\_num
* df\_cat = df.select\_dtypes(["object"])
* df\_cat
* le = LabelEncoder()
* for i in df\_cat:
* df\_cat[i] = le.fit\_transform(df\_cat[i])
* df\_cat
* df\_new = pd.concat([df\_num, df\_cat], axis = 1)
* df\_new
* df\_new1 = df\_new.drop("y", axis = 1)
* df\_new1
* sd = StandardScaler()
* for i in df\_new1:
* df\_new1[i] = sd.fit\_transform(df\_new1[[i]])
* df\_new1
* x = df\_new1
* x
* y = df\_new["y"]
* y
* xtrain, xtest, ytrain, ytest = train\_test\_split(x,y, test\_size = 0.3, random\_state = 42)
* def mymodel(model):
* model.fit(xtrain,ytrain)
* ypred = model.predict(xtest)
* ac = accuracy\_score(ytest, ypred)
* cl = classification\_report(ytest, ypred)
* print(f"Accuracy is {ac} \n\n Classification Report \n {cl}")
* svm = SVC()
* mymodel(svm)