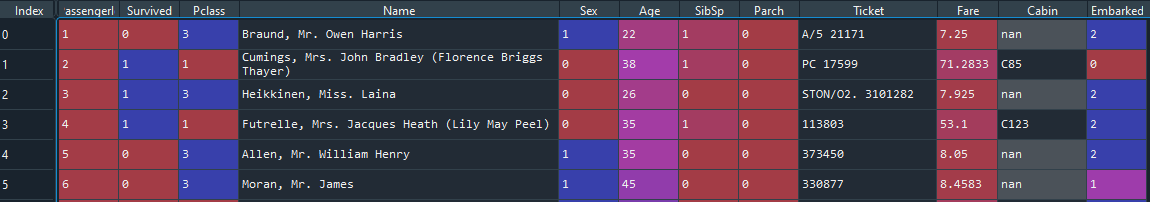
import pandas as pd

import numpy as np

from sklearn import preprocessing

dataset = pd.read\_csv("D:\\ML\\dataset\\train.csv")

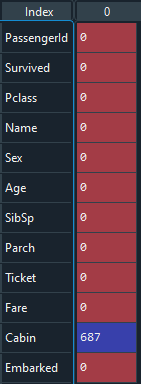


le = preprocessing.LabelEncoder()

dataset['Sex'] = le.fit\_transform(dataset['Sex'])

dataset['Embarked'] = le.fit\_transform(dataset['Embarked'])

dataset\_null = dataset.isnull().sum()



from sklearn.metrics import accuracy\_score,confusion\_matrix

from sklearn import svm

df = dataset.drop(['PassengerId','Name','Ticket','Cabin'],axis=1)

X = df['Pclass']

y = df.drop(['Pclass'],axis=1)

df['Age'] = df['Age'].astype(int)

df['Fare'] = df['Fare'].astype(int)

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

def svmmodel(X,y):

X\_train,X\_test,y\_train,y\_test = train\_test\_split(X,y,test\_size=0.25,random\_state=0)

clf = svm.SVC(gamma=0.01,C=100)

clf.fit(X\_train,y\_train)

y\_pred = clf.predict(X\_test)

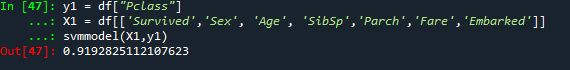
a = accuracy\_score(y\_test,y\_pred,normalize=True)

return a

y1 = df["Pclass"]

X1 = df[['Survived','Sex', 'Age', 'SibSp','Parch','Fare','Embarked']]

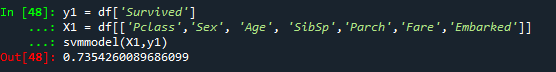
svmmodel(X1,y1)



y1 = df['Survived']

X1 = df[['Pclass','Sex', 'Age', 'SibSp','Parch','Fare','Embarked']]

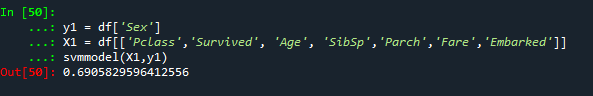
svmmodel(X1,y1)



y1 = df['Sex']

X1 = df[['Pclass','Survived', 'Age', 'SibSp','Parch','Fare','Embarked']]

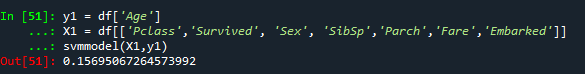
svmmodel(X1,y1)



y1 = df['Age']

X1 = df[['Pclass','Survived', 'Sex', 'SibSp','Parch','Fare','Embarked']]

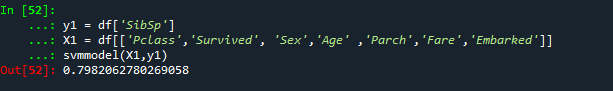
svmmodel(X1,y1)



y1 = df['SibSp']

X1 = df[['Pclass','Survived', 'Sex','Age' ,'Parch','Fare','Embarked']]

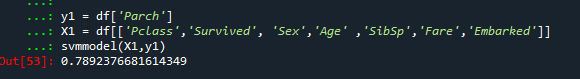
svmmodel(X1,y1)



y1 = df['Parch']

X1 = df[['Pclass','Survived', 'Sex','Age' ,'SibSp','Fare','Embarked']]

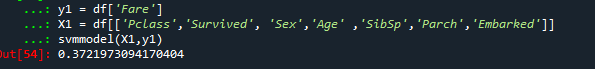
svmmodel(X1,y1)



y1 = df['Fare']

X1 = df[['Pclass','Survived', 'Sex','Age' ,'SibSp','Parch','Embarked']]

svmmodel(X1,y1)



y1 = df['Embarked']

X1 = df[['Pclass','Survived', 'Sex','Age' ,'SibSp','Fare','Parch']]

svmmodel(X1,y1)

