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#initializing the necessary libraries
#for data manipulation
import pandas as pd
#for splitting the data set into training and testing data
from sklearn.model_selection import train_test_split
#for building random forest model
from sklearn.ensemble import RandomForestClassifier
#for evaluating the model
from sklearn.metrics import accuracy_score, classification_report

#loading the data set
data=pd.read_csv("C:\tested.csv")

#analising the data
print(data)

feat=['PassengerId','Pclass','Name','Sex','Age','SibSp','Parch','Ticket','Fare','Cabin','Embarked']
tar_var='Survived'

data=data.dropna(subset=feat+[tar_var])

#converting categorical varibale values into numerical values
data=pd.get_dummies(data, columns=['Sex','Embarked'])

#evaluating the data training and testing sets
x_train,x_test,y_train,y_test=train_test_split(data[feat],data[tar_var],test_sixe=0.2, random_state=42)

#initializing the classifier
clf=RandomForestClassifier(random_state=42)

#fitting the classifer with training and testing data
clf.fit(x_train,y_train)

#defining the prediction on the test data set
predi=clf.predict(x_test)

#defining the accuracy
accuracy=accuracy_score(y_test,predi)
print("accuracy=",accuracy)

#defining the classification report
print("classification report=",classification_report(y_test,predi))
```