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import matplotlib.pyplot as plt
import sklearn
import pandas as pd
import numpy as np
from pandas.plotting import scatter matrix
from sklearn.linear model import LinearRegression
from sklearn.neighbors import KNeighborsClassifier
from sklearn import tree
from sklearn.metrics import accuracy score
def Predictor(train_x,train_y,test_x,test_y):
    obj=LinearRegression()
    obj.fit(train x,train y)
    print("R Square value is: ",obj.score(train x,train y))
def data divider(data):
    length=len(data)
   train size=int(0.8*length)
    test_size=length-train_size
   train_data=data.head(train_size)
   test_data=data.tail(test_size)
    return train_data,test_data
def data converter(data):
    return data.astype(np.int64)
def main():
    path="Advertising.csv"
    data=pd.read_csv(path)
    print(data.info())
```

```
attributes=['TV','radio','newspaper']
  data_label=data_converter(pd.read_csv(path,usecols=attributes
))
  data_target=data_converter(pd.read_csv(path,usecols=['sales']
))
  train_label,test_label=data_divider(data_label)

  train_target,test_target=data_divider(data_target)
  print(train_label.info())
  print(train_target.info())
  Predictor(train_label,train_target,test_label,test_target)

if __name__=="__main__":
  main()
```