

Spyder (Python 3.7)

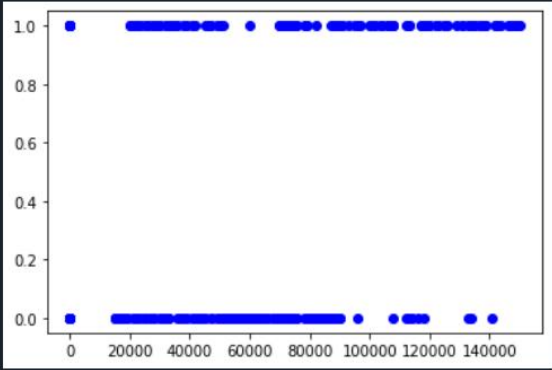
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C:\Users\dell\Desktop\Day2\social.py

temp.py social.py untitled1.py*

```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Tue Jun 2 14:03:43 2020
4
5 @author: dell
6 """
7
8 import pandas as pd
9 import seaborn as sns
10 import matplotlib.pyplot as plt
11 data=pd.read_csv("Social_networking_ads.csv")
12
13 y=data["Purchased"].values
14 from sklearn.preprocessing import LabelEncoder
15 le=LabelEncoder()
16 data['Gender'] = le.fit_transform(data['Gender'])
17 x=data[["Age","EstimatedSalary"]].values
18 corr = data.corr()
19 f, ax = plt.subplots(figsize=(8, 8))
20 sns.heatmap(corr,square=True,vmax=3,annot=True)
21 plt.show()
22 from sklearn.metrics import accuracy_score
23 from sklearn.model_selection import train_test_split
24 x_train,x_test,y_train,y_test=train_test_split(x,y,random_state=0)
25 from sklearn.tree import DecisionTreeClassifier
26 dt=DecisionTreeClassifier()
27 clf=dt.fit(x_train,y_train)
28 ypred_train=dt.predict(x_train)
29 ypred=dt.predict(x_test)
30 accuracy=accuracy_score(ypred,y_test)
31
32 print("accuracy socre",accuracy*100)
33 plt.plot(x_train,ypred_train,"bo")
```

Variable explorer Help Files Profiler Code Analysis Plots



Console 1/A

```
return func(xa, map(sequence, args), kwargs)

File "C:\Users\dell\anaconda3\lib\site-packages\matplotlib\axes\_axes.py", line 4443, in scatter
    raise ValueError("x and y must be the same size")

ValueError: x and y must be the same size

In [52]: runfile('C:/Users/dell/Desktop/Day2/social.py', wdir='C:/Users/dell/Desktop/Day2')
accuracy socre= 90.0

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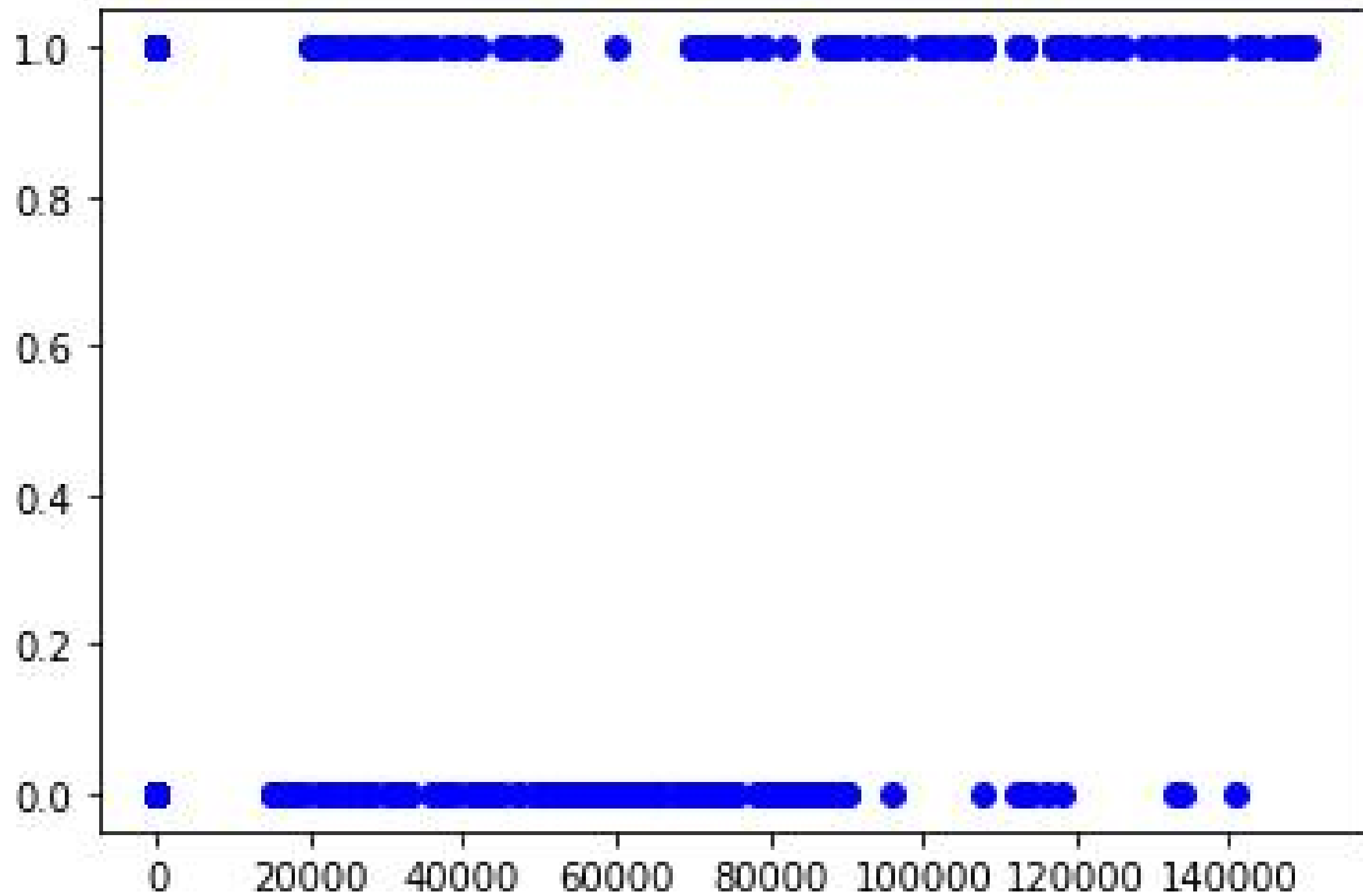
In [54]: runfile('C:/Users/dell/Desktop/Day2/social.py', wdir='C:/Users/dell/Desktop/Day2')
accuracy score for trained data= 100.0
accuracy socre for test data= 90.0

In [55]: runfile('C:/Users/dell/Desktop/Day2/social.py', wdir='C:/Users/dell/Desktop/Day2')
accuracy socre 90.0

In [56]:
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History IPython console

conda: base (Python 3.7.6) Line 33, Col 35 UTF-8 CRLF RW Mem 75%



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