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```
import numpy as np
import pandas as pd
import os
import seaborn as sns
import matplotlib.pyplot as plt
from sklearn import svm
from sklearn.metrics import accuracy_score
from sklearn.neighbors import KNeighborsClassifier
from sklearn import metrics
from sklearn.model_selection import cross_val_score
from sklearn import preprocessing
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
import joblib
from sklearn.metrics import accuracy_score
```

```
[ ] df=pd.read_csv(r"/content/collegePlace.csv")
```

```
[ ] df.shape
```

```
(2966, 8)
```

Double-click (or enter) to edit

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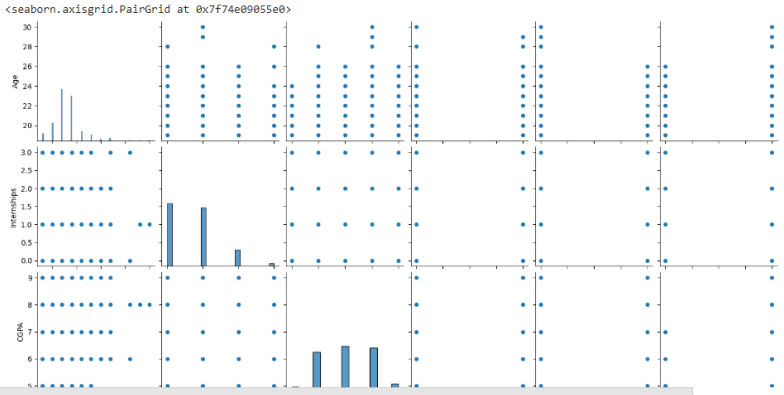
```
[ ] sns.pairplot(df)
```

```
<seaborn.axisgrid.PairGrid at 0x7f74e09055e0>
```



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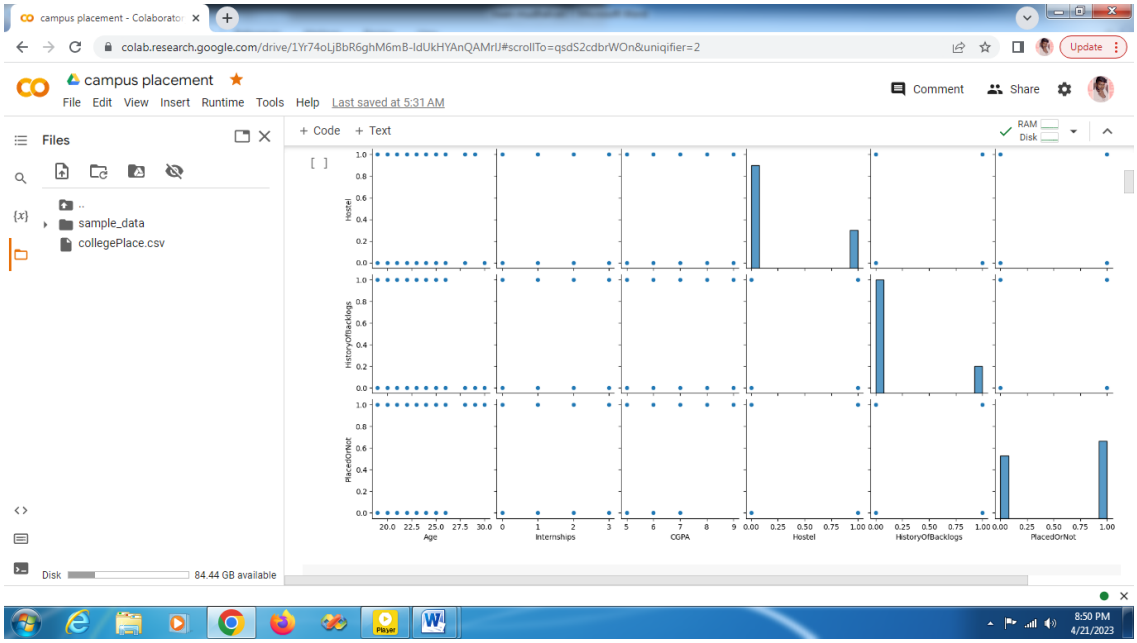
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sample_data
collegePlace.csv
Hostel
HistoryOfBacklogs
PlacedOrNot
Age
Internships
CGPA
Hostel
HistoryOfBacklogs
PlacedOrNot
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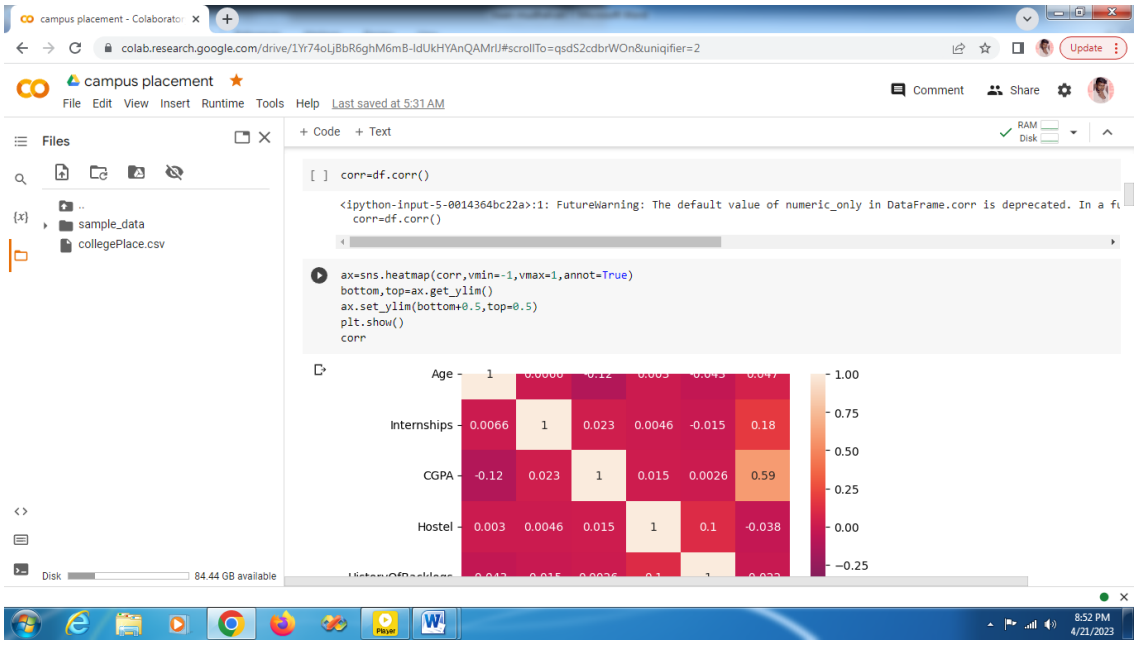
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sample_data
collegePlace.csv
[ ] corr=df.corr()
<ipython-input-5-0014364bc22a>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a f
corr=df.corr()
ax=sns.heatmap(corr,vmin=-1,vmax=1,annot=True)
bottom,top=ax.get_ylim()
ax.set_ylim(bottom+0.5,top=0.5)
plt.show()
corr
Age
Internships
CGPA
Hostel
1
0.0066 1 0.023 0.0046 -0.015 0.18
-0.12 0.023 1 0.015 0.0026 0.59
0.003 0.0046 0.015 1 0.1 -0.038
1.00
0.75
0.50
0.25
0.00
−0.25
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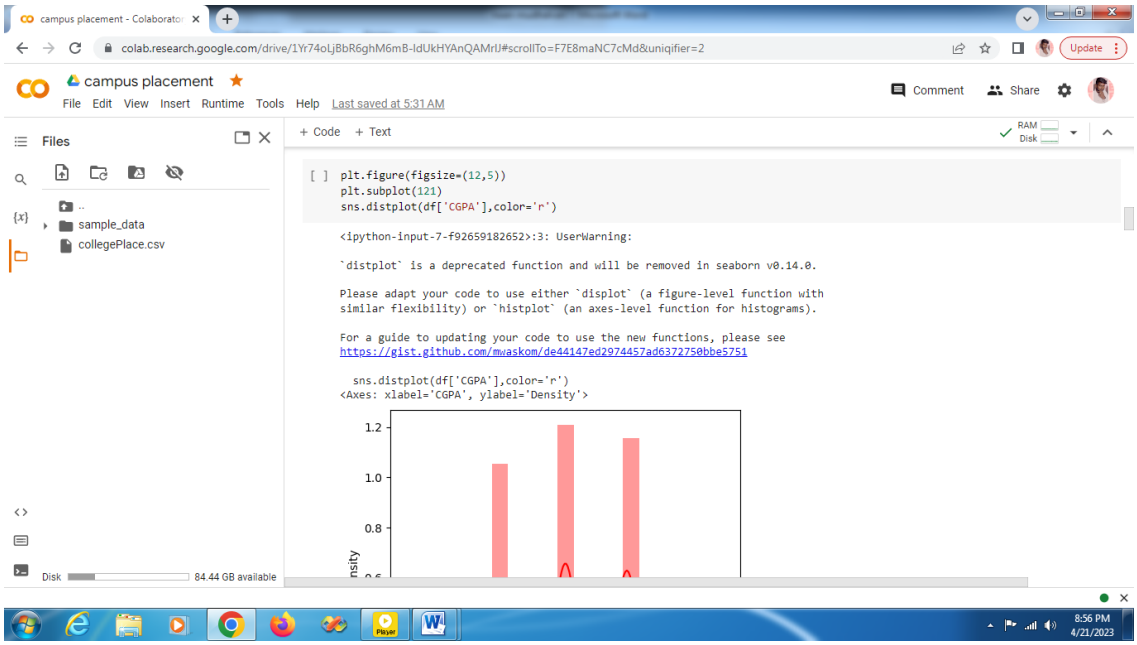
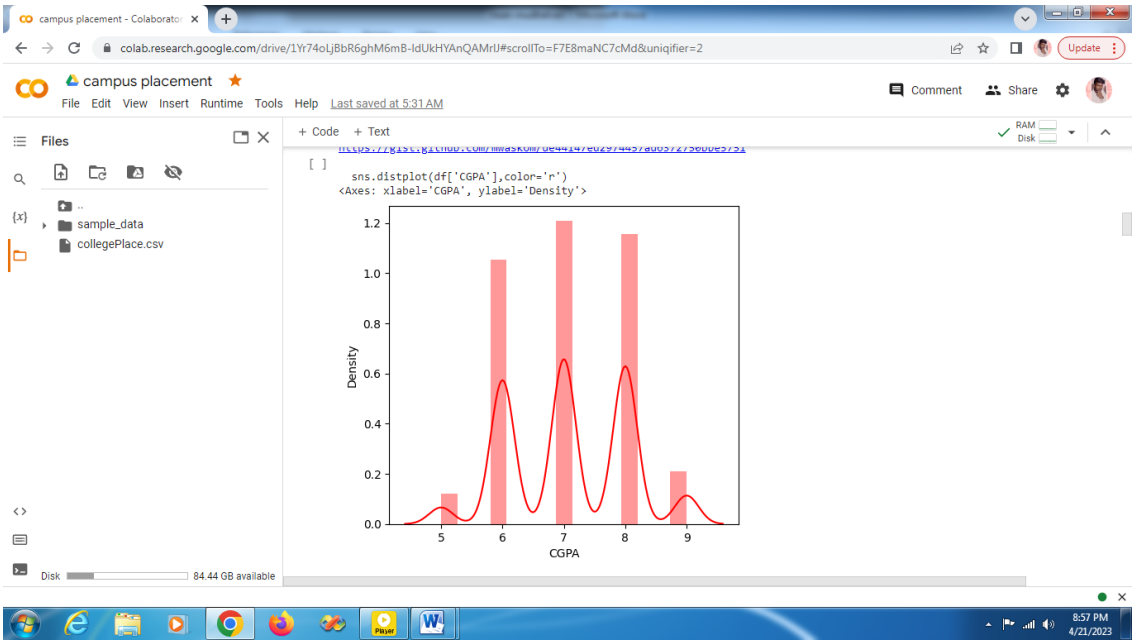
	Age	Internships	CGPA	Hostel	HistoryOfBacklogs	PlacedOrNot
Age	1.000000	0.006552	-0.119787	0.003042	-0.042586	0.046943
Internships	0.006552	1.000000	0.023496	0.004617	-0.015118	0.179334
CGPA	-0.119787	0.023496	1.000000	0.014991	0.002576	0.588648
Hostel	0.003042	0.004617	0.014991	1.000000	0.103506	-0.038182
HistoryOfBacklogs	-0.042586	-0.015118	0.002576	0.103506	1.000000	-0.022337
PlacedOrNot	0.046943	0.179334	0.588648	-0.038182	-0.022337	1.000000

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[ ]
sns.distplot(df['CGPA'],color='r')
<Axes: xlabel='CGPA', ylabel='Density'>
Density
CGPA
Disk 84.44 GB available
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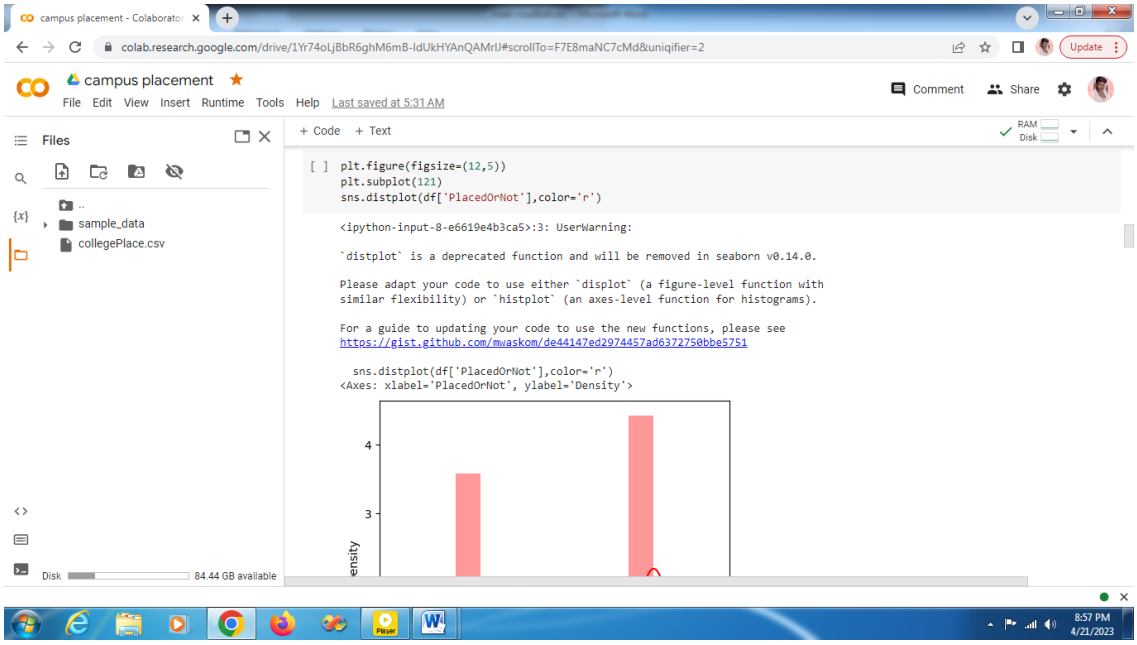
4/21/2023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colab.research.google.com/drive/1Yr74oLjBbR6ghM6mB-ldUkHYAnQAMrIJ#scrollTo=F7E8maNC7cMd&uniqifier=2
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[ ]
plt.figure(figsize=(12,5))
plt.subplot(121)
sns.distplot(df['PlacedOrNot'],color='r')
<ipython-input-8-e6619e4b3ca5>:3: UserWarning:
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.
Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).
For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751
sns.distplot(df['PlacedOrNot'],color='r')
<Axes: xlabel='PlacedOrNot', ylabel='Density'>
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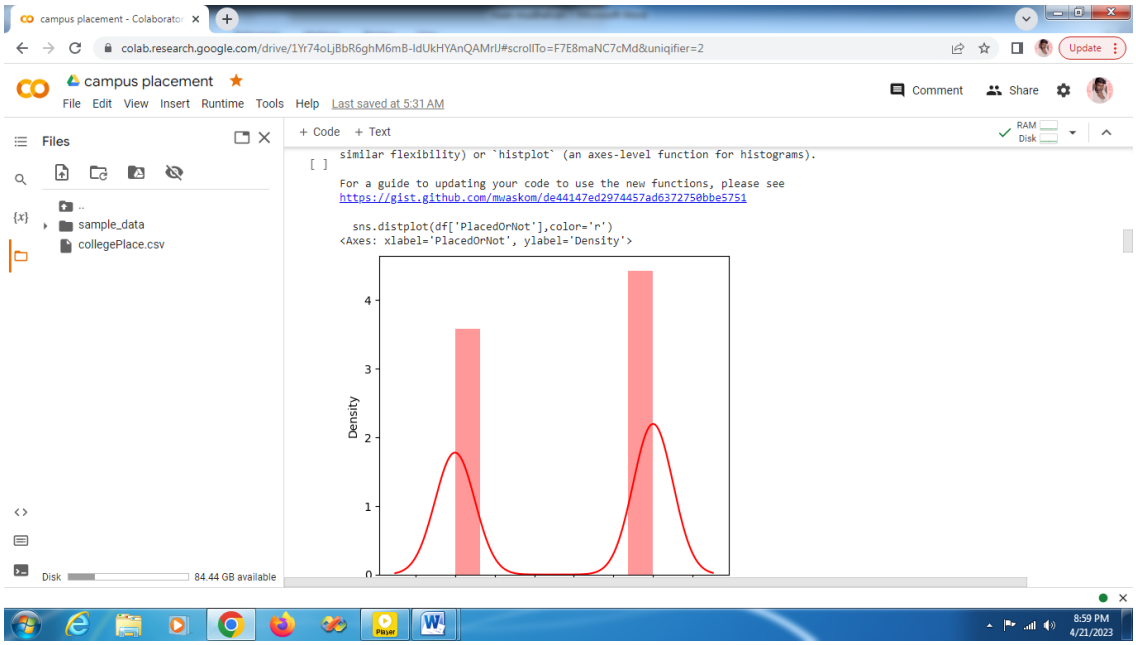
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similar flexibility) or `histplot` (an axes-level function for histograms).
For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751
sns.distplot(df['PlacedOrNot'],color='r')
<Axes: xlabel='PlacedOrNot', ylabel='Density'>
Density
sample_data
collegePlace.csv
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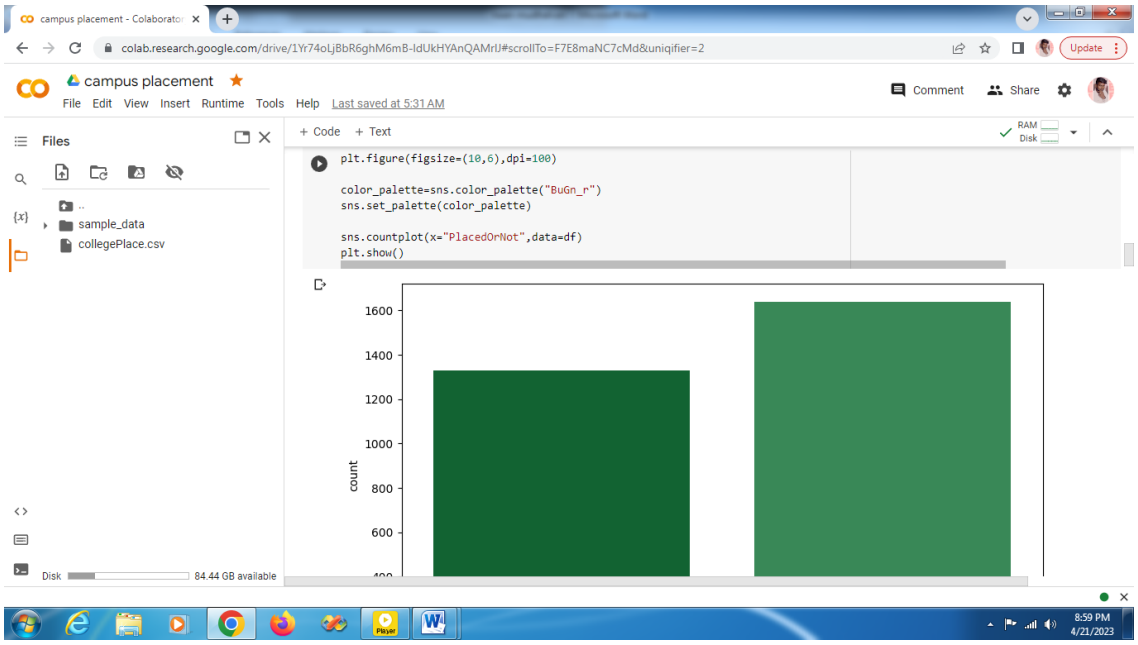
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plt.figure(figsize=(10,6),dpi=100)
color_palette=sns.color_palette("BuGn_r")
sns.set_palette(color_palette)
sns.countplot(x="PlacedOrNot",data=df)
plt.show()
count
sample_data
collegePlace.csv
Disk
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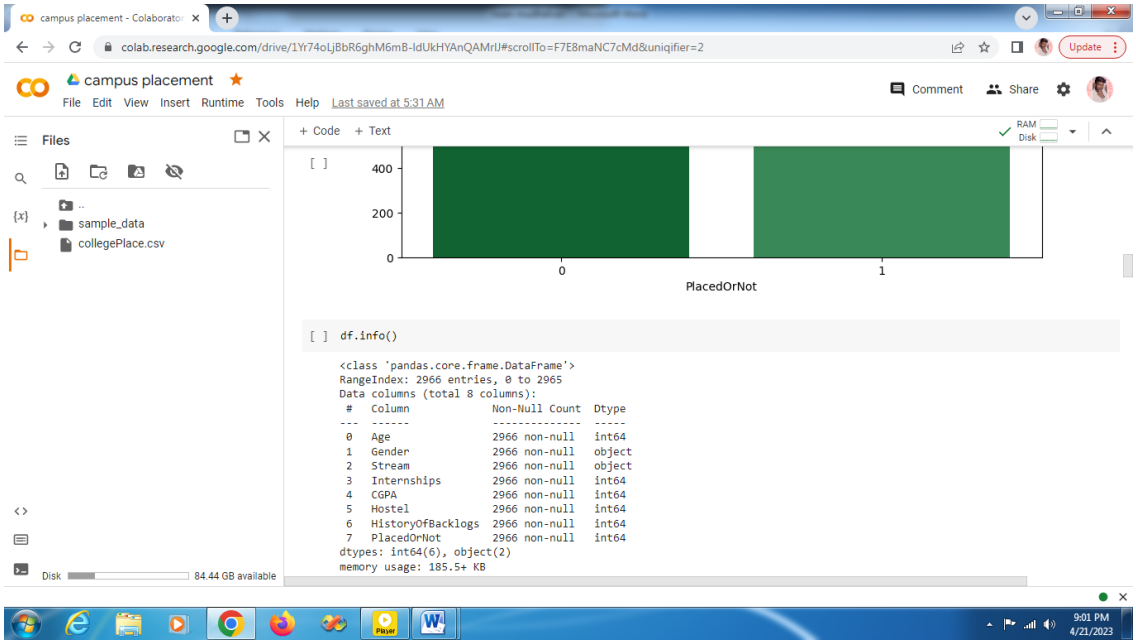
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RAM
Disk
sample_data
collegePlace.csv
400
200
0
0
1
PlacedOrNot
[ ] df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2966 entries, 0 to 2965
Data columns (total 8 columns):
Column Non-Null Count Dtype
0 Age 2966 non-null int64
1 Gender 2966 non-null object
2 Stream 2966 non-null object
3 Internships 2966 non-null int64
4 CGPA 2966 non-null int64
5 Hostel 2966 non-null int64
6 HistoryOfBacklogs 2966 non-null int64
7 PlacedOrNot 2966 non-null int64
dtypes: int64(6), object(2)
memory usage: 185.5+ KB
Disk 84.44 GB available
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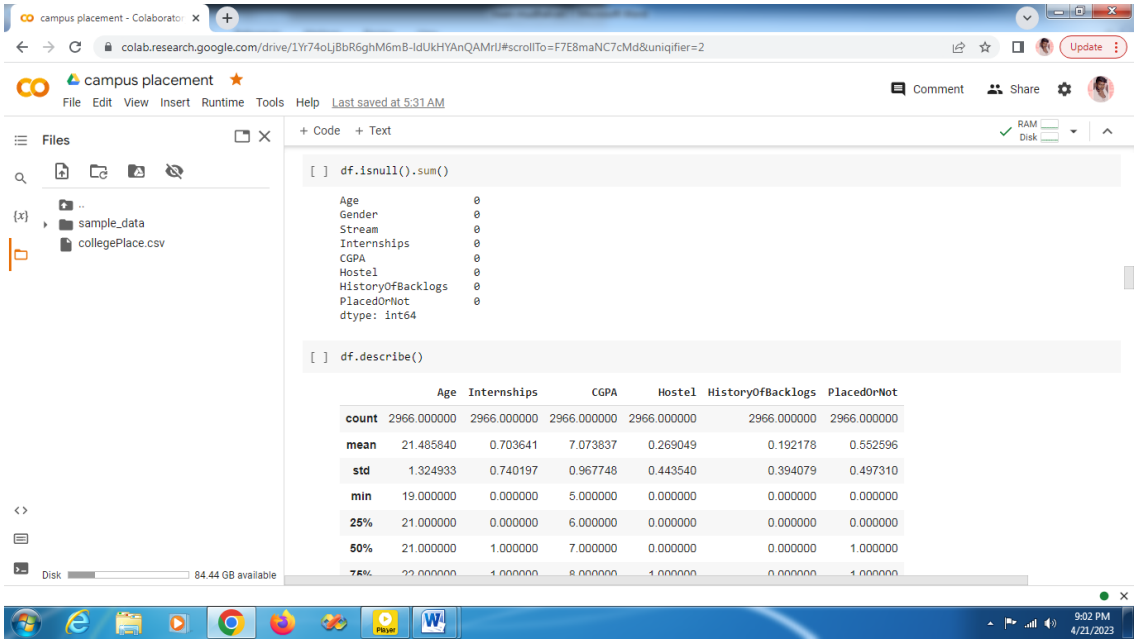
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sample_data
collegePlace.csv
[ ] df.isnull().sum()
Age 0
Gender 0
Stream 0
Internships 0
CGPA 0
Hostel 0
HistoryOfBacklogs 0
PlacedOrNot 0
dtype: int64
[ ] df.describe()
Age Internships CGPA Hostel HistoryOfBacklogs PlacedOrNot
count 2966.000000 2966.000000 2966.000000 2966.000000 2966.000000 2966.000000
mean 21.485840 0.703641 7.073837 0.269049 0.192178 0.552596
std 1.324933 0.740197 0.967748 0.443540 0.394079 0.497310
min 19.000000 0.000000 5.000000 0.000000 0.000000 0.000000
25% 21.000000 0.000000 6.000000 0.000000 0.000000 0.000000
50% 21.000000 1.000000 7.000000 0.000000 0.000000 1.000000
Disk 84.44 GB available
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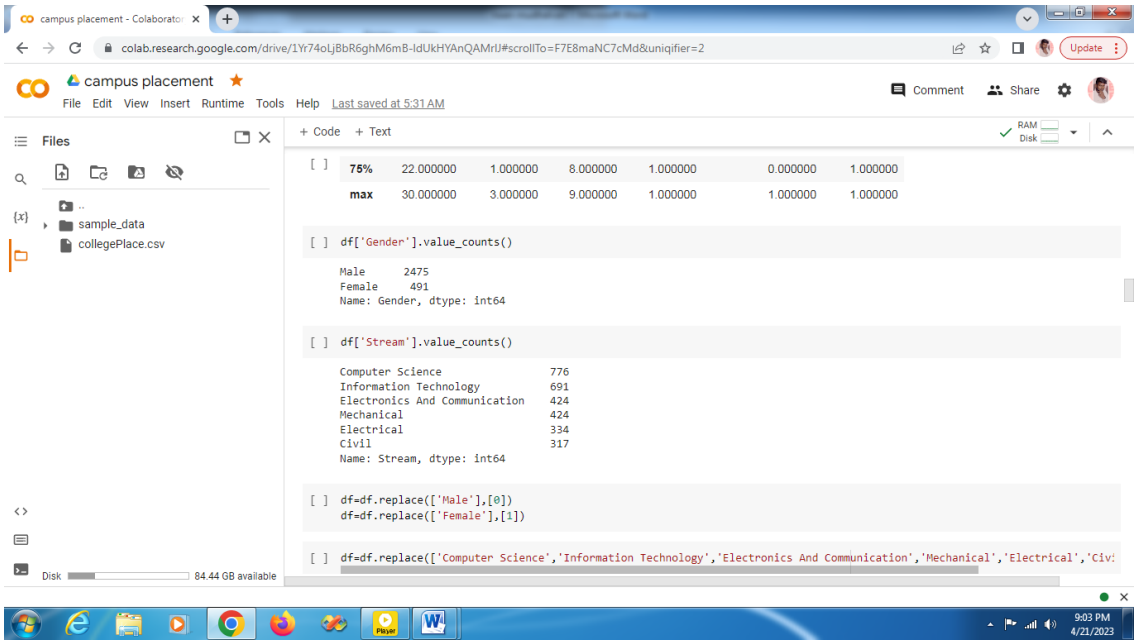
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colab.research.google.com/drive/1Yr74oLjBbR6ghM6mB-IdUkHYAnQAMrIJ#scrollTo=F7E8maNC7cMd&uniqifier=2
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sample_data
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RAM
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75% 22.000000 1.000000 8.000000 1.000000 0.000000 1.000000
max 30.000000 3.000000 9.000000 1.000000 1.000000 1.000000
df['Gender'].value_counts()
Male 2475
Female 491
Name: Gender, dtype: int64
df['Stream'].value_counts()
Computer Science 776
Information Technology 691
Electronics And Communication 424
Mechanical 424
Electrical 334
Civil 317
Name: Stream, dtype: int64
df=df.replace(['Male'],[0])
df=df.replace(['Female'],[1])
df=df.replace(['Computer Science','Information Technology','Electronics And Communication','Mechanical','Electrical','Civ
Disk
84.44 GB available
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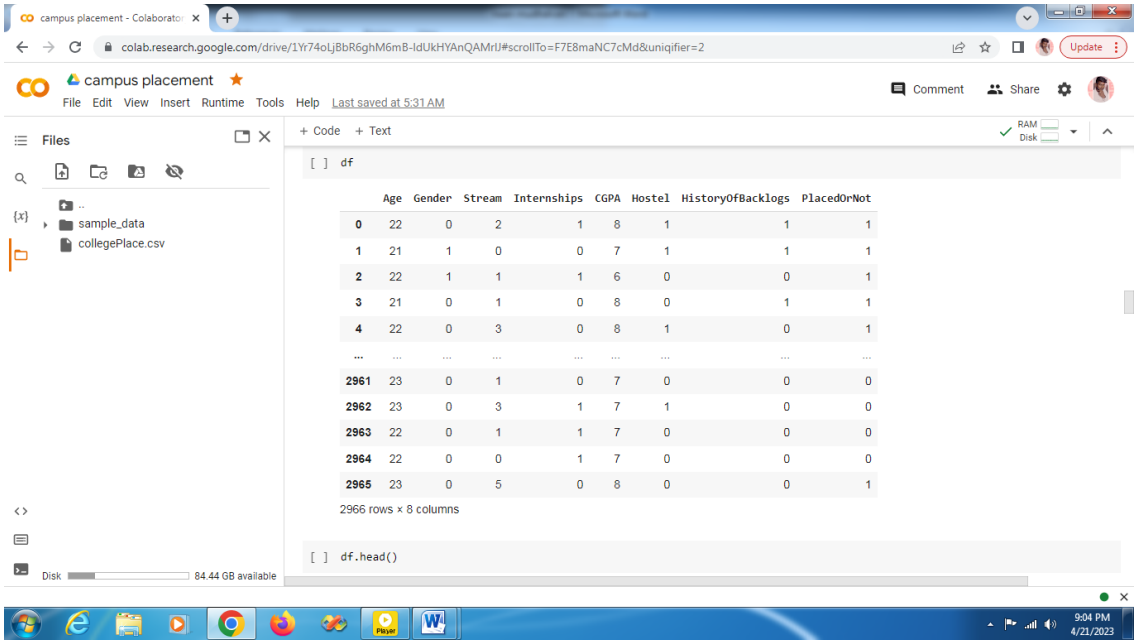
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Files
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RAM
Disk
df
Age Gender Stream Internships CGPA Hostel HistoryOfBacklogs PlacedOrNot
0 22 0 2 1 8 1 1 1
1 21 1 0 0 7 1 1 1
2 22 1 1 1 6 0 0 1
3 21 0 1 0 8 0 1 1
4 22 0 3 0 8 1 0 1
... ...
2961 23 0 1 0 7 0 0 0
2962 23 0 3 1 7 1 0 0
2963 22 0 1 1 7 0 0 0
2964 22 0 0 1 7 0 0 0
2965 23 0 5 0 8 0 0 1
2966 rows × 8 columns
df.head()
Disk
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```
[ ] df.head()
```

	Age	Gender	Stream	Internships	CGPA	Hostel	HistoryOfBacklogs	PlacedOrNot
0	22	0	2	1	8	1	1	1
1	21	1	0	0	7	1	1	1
2	22	1	1	1	6	0	0	1
3	21	0	1	0	8	0	1	1
4	22	0	3	0	8	1	0	1

```
[ ] def transformationplot(feature):
        plt.figure(figsize=(12,5))
        plt.subplot(1,2,1)
        sns.distplot(feature)
    transformationplot(np.log(df['Age']))
```

```
<ipython-input-19-6fba3c2af64a>:4: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).
```

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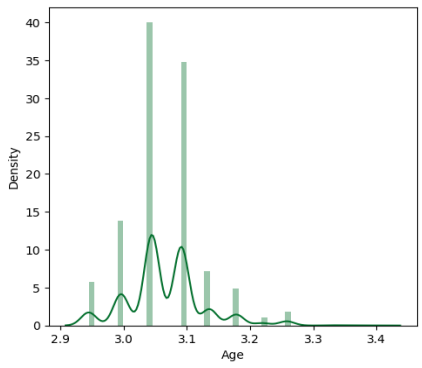
```
For a guide to updating your code to use the new functions, please see
[ ] https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

    sns.distplot(feature)
```



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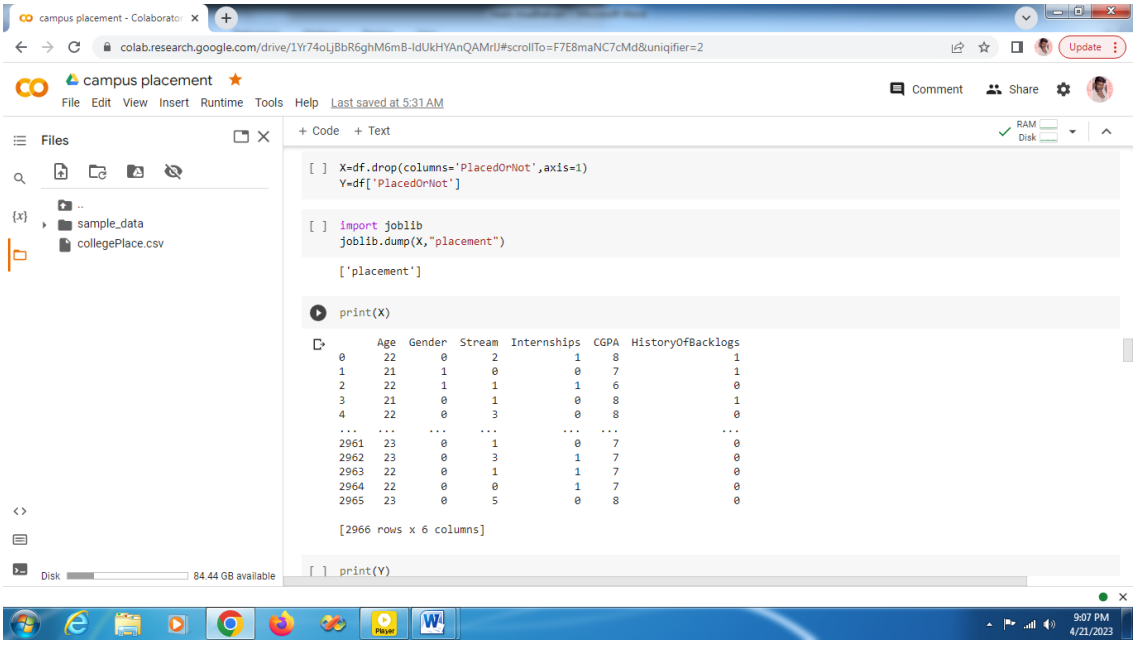
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[ ] X=df.drop(columns='PlacedOrNot',axis=1)
Y=df['PlacedOrNot']
[ ] import joblib
joblib.dump(X,"placement")
['placement']
print(X)
Age Gender Stream Internships CGPA HistoryOfBacklogs
0 22 0 2 1 8 1
1 21 1 0 0 7 1
2 22 1 1 1 6 0
3 21 0 1 0 8 1
4 22 0 3 0 8 0
... ...
2961 23 0 1 0 7 0
2962 23 0 3 1 7 0
2963 22 0 1 1 7 0
2964 22 0 0 1 7 0
2965 23 0 5 0 8 0
[2966 rows x 6 columns]
[ ] print(Y)
Disk
84.44 GB available
9:07 PM
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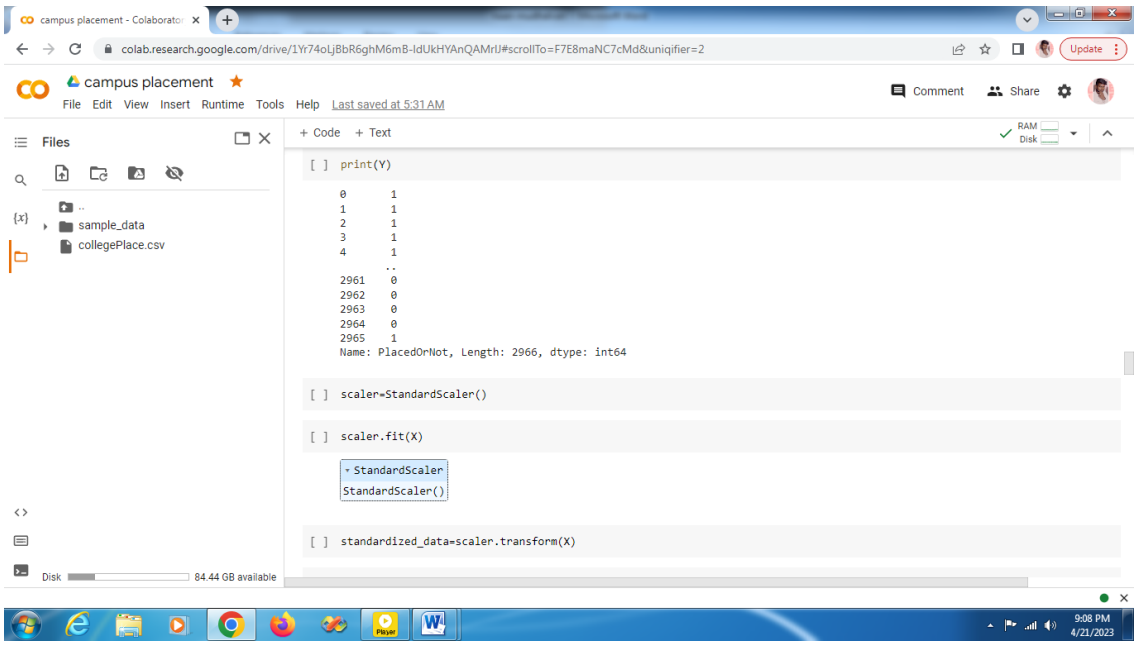
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colab.research.google.com/drive/1Yr74oLjBbR6ghM6mB-ldUkHYAnQAMrlJ#scrollTo=F7E8maNC7cMd&uniqifier=2
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sample_data
collegePlace.csv
+ Code + Text
RAM
Disk
[ ] print(Y)
0 1
1 1
2 1
3 1
4 1
..
2961 0
2962 0
2963 0
2964 0
2965 1
Name: PlacedOrNot, Length: 2966, dtype: int64
[ ] scaler=StandardScaler()
[ ] scaler.fit(X)
StandardScaler
StandardScaler()
[ ] standardized_data=scaler.transform(X)
Disk
84.44 GB available
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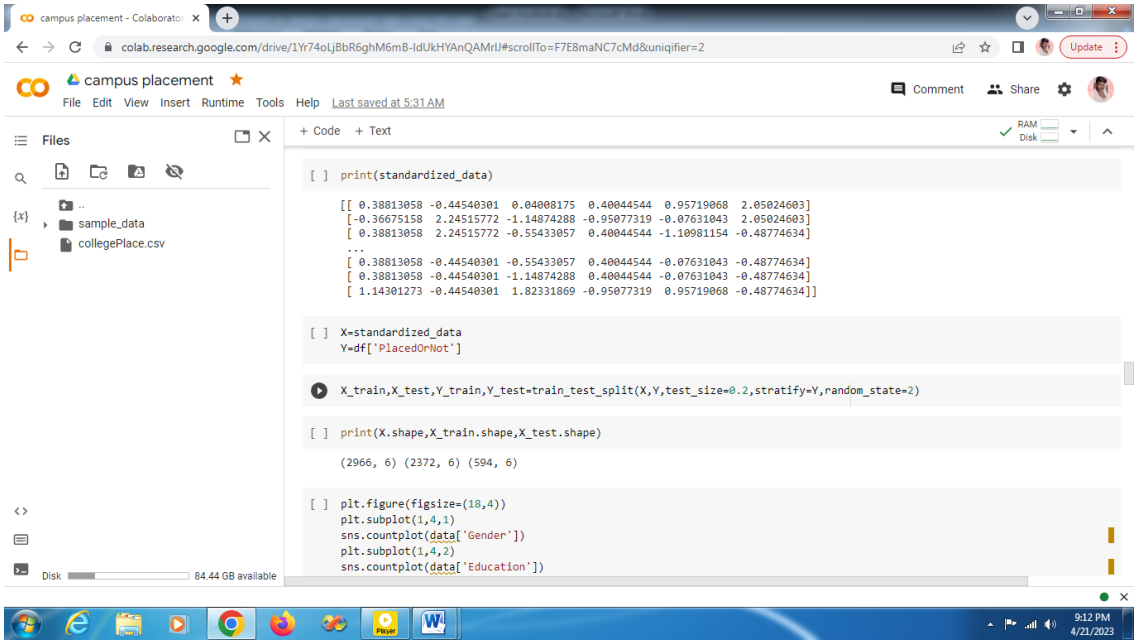
4/21/2023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colab.research.google.com/drive/1Yr74oLjBbR6ghM6mB-IdUkHYAnQAMrlJ#scrollTo=F7E8maNC7cMd&uniqifier=2
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RAM
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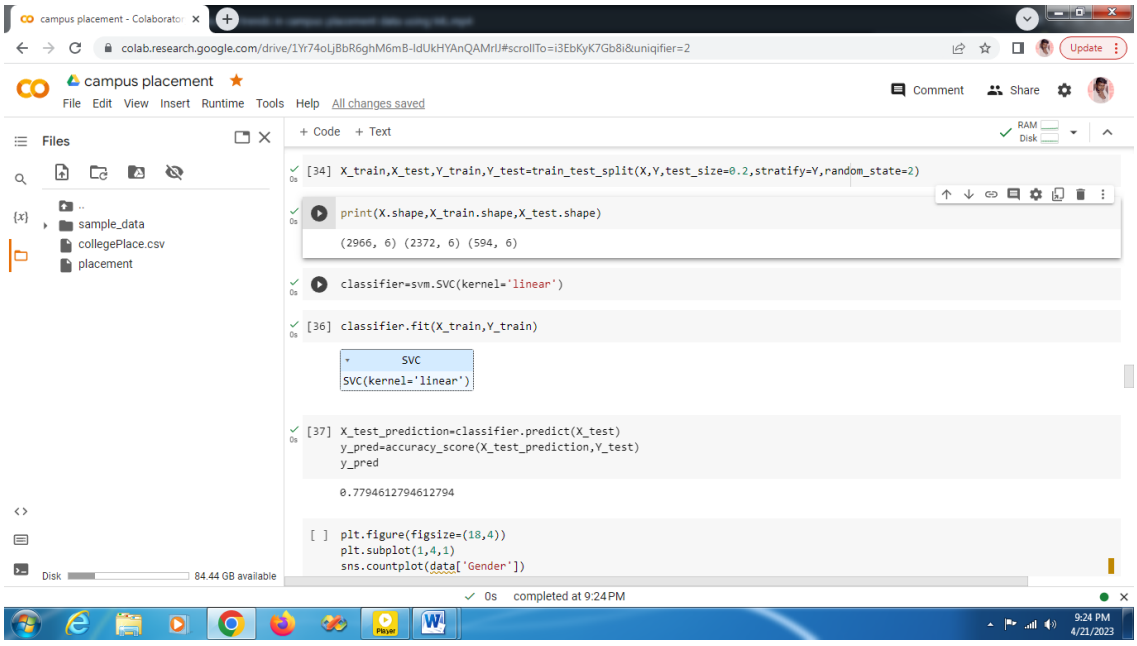
[ ] print(standardized_data)
[[0.38813058 -0.44540301 0.04008175 0.40044544 0.95719068 2.05024603]
[-0.36675158 2.24515772 -1.14874288 -0.95077319 -0.07631043 2.05024603]
[0.38813058 2.24515772 -0.55433057 0.40044544 -1.10981154 -0.48774634]
...
[0.38813058 -0.44540301 -0.55433057 0.40044544 -0.07631043 -0.48774634]
[0.38813058 -0.44540301 -1.14874288 0.40044544 -0.07631043 -0.48774634]
[1.14301273 -0.44540301 1.82331869 -0.95077319 0.95719068 -0.48774634]]
[ ] X=standardized_data
Y=df['PlacedOrNot']
X_train,X_test,Y_train,Y_test=train_test_split(X,Y,test_size=0.2,stratify=Y,random_state=2)
[ ] print(X.shape,X_train.shape,X_test.shape)
(2966, 6) (2372, 6) (594, 6)
[ ] plt.figure(figsize=(18,4))
plt.subplot(1,4,1)
sns.countplot(data['Gender'])
plt.subplot(1,4,2)
sns.countplot(data['Education'])
9:12 PM
4/21/2023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[34] X_train,X_test,Y_train,Y_test=train_test_split(X,Y,test_size=0.2,stratify=Y,random_state=2)
print(X.shape,X_train.shape,X_test.shape)
(2966, 6) (2372, 6) (594, 6)
classifier=svm.SVC(kernel='linear')
[36] classifier.fit(X_train,Y_train)
SVC
SVC(kernel='linear')
[37] X_test_prediction=classifier.predict(X_test)
y_pred=accuracy_score(X_test_prediction,Y_test)
y_pred
0.7794612794612794
[ ] plt.figure(figsize=(18,4))
plt.subplot(1,4,1)
sns.countplot(data['Gender'])
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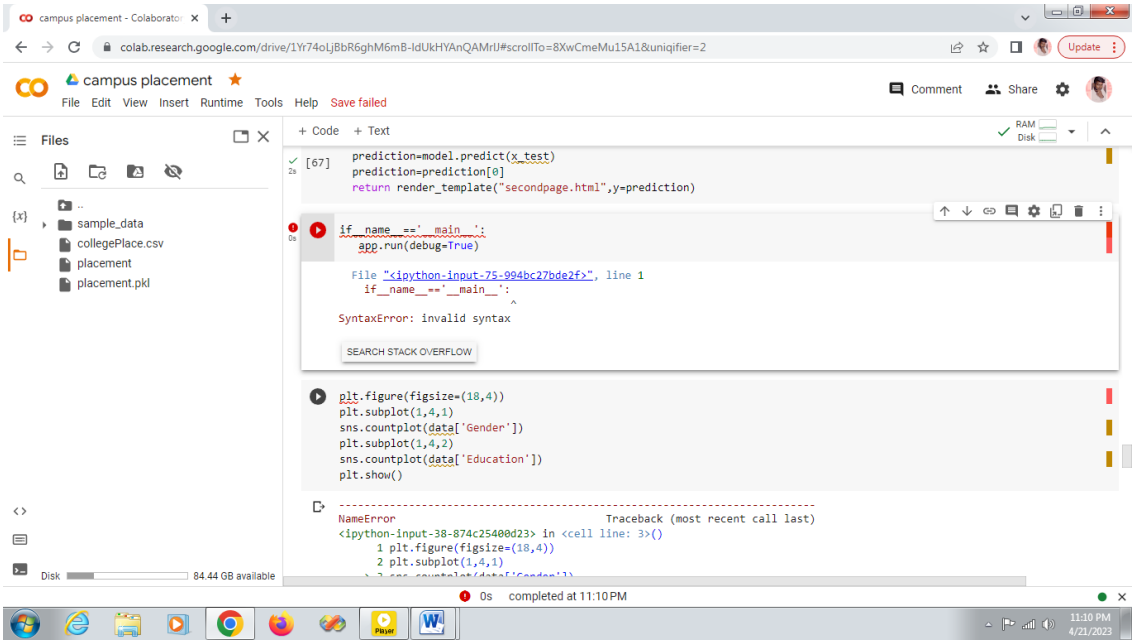
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[67]
prediction=model.predict(x_test)
prediction=prediction[0]
return render_template("secondpage.html",y=prediction)
if __name__=='__main__':
app.run(debug=True)
File "<ipython-input-75-994bc27bde2f>", line 1
if__name__=='__main__':
^
SyntaxError: invalid syntax
SEARCH STACK OVERFLOW
plt.figure(figsize=(18,4))
plt.subplot(1,4,1)
sns.countplot(data['Gender'])
plt.subplot(1,4,2)
sns.countplot(data['Education'])
plt.show()
NameError Traceback (most recent call last)
<ipython-input-38-874c25400d23> in <cell line: 3>()
1 plt.figure(figsize=(18,4))
2 plt.subplot(1,4,1)
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