

Platform Login Credentials - 1 X Student M-7188/Identifying-Patterns - Welcome To Colaboratory - Campus placement2.ipynb -

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**Campus placement2.ipynb** ☆

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```
[1] 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("/content/drive/MyDrive/collegePlace.csv")
df.head()
```

	Age	Gender	Stream	Internships	CGPA	Hostel	HistoryOfBacklogs	PlacedOrNot
0	22	Male	Electronics And Communication	1	8	1	1	1
1	24	Female	Computer Science	0	7	0	0	0

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[3] df = pd.read\_csv("/content/drive/MyDrive/collegePlace.csv")  
df.head()

	Age	Gender	Stream	Internships	CGPA	Hostel	HistoryOfBacklogs	PlacedOrNot
0	22	Male	Electronics And Communication	1	8	1	1	1
1	21	Female	Computer Science	0	7	1	1	1
2	22	Female	Information Technology	1	6	0	0	1
3	21	Male	Information Technology	0	8	0	1	1
4	22	Male	Mechanical	0	8	1	0	1

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
```

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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
```

[ ] df.isnull().sum()

```
Age                0
Gender              0
Stream              0
Internships         0
CGPA                0
Hostel              0
HistoryOfBacklogs   0
```

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df.isnull().sum()

Age0  
Gender0  
Stream0  
Internships0  
CGPA0  
Hostel0  
HistoryOfBacklogs0  
PlacedOrNot0  
dtype: int64

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

<ipython-input-7-e550ac2a07ab>: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).  
  
For a guide to updating your code to use the new functions, please see

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[15] df = df.replace(['Male'],[0])  
df = df.replace(['Female'],[1])

[16] df = df.replace(['Computer Science','Information Technology','Electronics And Communication','Mechanical','Electrical','Civil'],  
[0,1,2,3,4,5])

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

[ ] df

	Age	Gender	Stream	Internships	CGPA	HistoryOfBacklogs	PlacedOrNot
0	22	0	2	1	8	1	1
1	21	1	0	0	7	1	1
2	22	1	1	1	6	0	1
3	21	0	1	0	8	1	1
4	22	0	3	0	8	0	1
...	...	...	...	...	...	...	...
2961	23	0	1	0	7	0	0

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df

	Age	Gender	Stream	Internships	CGPA	HistoryOfBacklogs	PlacedOrNot
0	22	0	2	1	8	1	1
1	21	1	0	0	7	1	1
2	22	1	1	1	6	0	1
3	21	0	1	0	8	1	1
4	22	0	3	0	8	0	1
...	...	...	...	...	...	...	...
2961	23	0	1	0	7	0	0
2962	23	0	3	1	7	0	0
2963	22	0	1	1	7	0	0
2964	22	0	0	1	7	0	0
2965	23	0	5	0	8	0	1

2966 rows × 7 columns

[ ] plt.figure(figsize=(12,5))

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