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File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel)

In [6]: `import numpy as np
import pandas as pd
import os`

In [7]: `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`

In [8]: `df = pd.read_csv(r"D:\New folder\archive\collegePlace.csv")
df.head()`

Out[8]:

	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

In [9]: `df.info`

Out[9]: `<bound method DataFrame.info of Age Gender Stream Internships CGPA Hostel \
0 22 Male Electronics And Communication 1 8 1`

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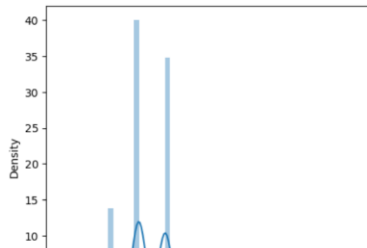
```
df.info()
CGPA      0
Hostel    0
HistoryOfBacklogs  0
PlacedOrNot  0
dtype: int64
```

In [11]:

```
def transformationplot(feature):
    plt.figure(figsize=(12,5))
    plt.subplot(1,2,1)
    sns.distplot(feature)

transformationplot(np.log(df['Age']))
```

c:\ProgramData\Anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: 'distplot' is a deprecated function and will be removed in a future version. Please adapt your code to use either 'displot' (a figure-level function with similar flexibility) or 'histplot' (an axes-level function for histograms).
warnings.warn(msg, FutureWarning)



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```
In [9]: df.info
Out[9]: <bound method DataFrame.info of
0 22 Male Electronics And Communication 1 8 1
1 21 Female Computer Science 0 7 1
2 22 Female Information Technology 1 6 0
3 21 Male Information Technology 0 8 0
4 22 Male Mechanical 0 8 1
... ..
2961 23 Male Information Technology 0 7 0
2962 23 Male Mechanical 1 7 1
2963 22 Male Information Technology 1 7 0
2964 22 Male Computer Science 1 7 0
2965 23 Male Civil 0 8 0

HistoryOfBacklogs PlacedOrNot
0 1 1
1 1 1
2 0 1
3 1 1
4 0 1
... ..
2961 0 0
2962 0 0
2963 0 0
2964 0 0
2965 0 1

[2966 rows x 8 columns]>
```

In [10]:

```
df.isnull().sum()
Out[10]:
Age      0
Gender    0
Stream    0
Internships  0
```

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0 22 Male Electronics And Communication 1 8 1 Stream Internships CGPA Hostel \
1 21 Female Computer Science 0 7 1
2 22 Female Information Technology 1 6 0
3 21 Male Information Technology 0 8 0
4 22 Male Mechanical 0 8 1
...
2961 23 Male Information Technology 0 7 0
2962 23 Male Mechanical 1 7 1
2963 22 Male Information Technology 1 7 0
2964 22 Male Computer Science 1 7 0
2965 23 Male Civil 0 8 0

HistoryOfBacklogs PlacedOrNot
0 1 1
1 1 1
2 0 1
3 1 1
4 0 1
...
2961 0 0
2962 0 0
2963 0 0
2964 0 0
2965 0 1

[2966 rows x 8 columns]>

In [10]: df.isnull().sum()
Out[10]:
Age 0
Gender 0
Stream 0
Internships 0
```

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2.9 3.0 3.1 3.2 3.3 3.4
Age

```
In [12]: df = df.replace(['Male'],[0])
df = df.replace(['Female'],[1])

In [13]: df = df.replace(['Computer Science','Information Technology','Electronics And Communication','Mechanical','civil'],[0,1,2,3,4])

In [14]: df = df.drop(['Hostel'], axis=1)

In [15]: df
Out[15]:
   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      Civil         0         8         0         1

2966 rows x 7 columns

In [17]: plt.figure(figsize=(12,5))
plt.subplot(2,1,1)
```

