

```
[In [2]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.preprocessing import LabelEncoder
from sklearn.preprocessing import StandardScaler
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.naive_bayes import GaussianNB
from sklearn import svm
from sklearn.metrics import accuracy_score, confusion_matrix, classification_report

In [3]: dataset = pd.read_csv("Placement_Data_Full_Class.csv")

In [4]: dataset.head()

Out[4]:
  sl_no  gender  m 7.000 Others 91.000 Others Commerce 58.000 Sci&Tech No 55.0 M&M&HR 58.80 Placed 270000.0
0      1      M 79.33 Central 78.33 Others Science 77.48 Sci&Tech Yes 86.5 M&M&Fin 66.28 Placed 200000.0
1      2      M 65.00 Central 68.00 Central Arts 64.00 Comm&Mgmt No 75.0 M&M&Fin 57.80 Placed 250000.0
2      3      M 56.00 Central 52.00 Central Science 52.00 Sci&Tech No 66.0 M&M&HR 59.43 Not Placed NaN
3      4      M 85.80 Central 73.60 Central Commerce 73.30 Comm&Mgmt No 96.8 M&M&Fin 55.50 Placed 425000.0
4      5

In [5]: # as salary and sl_no columns are not required for placement status prediction so we drop it
dataset.drop(['salary', 'sl_no'], axis=1, inplace=True)

In [6]: # missing values checking
dataset.isnull().sum()

Out[6]:
gender      0
ssc_p       0
ssc_b       0
hsc_p       0
hsc_b       0
degree_p    0
workex      0
etest_p     0
specialisation 0
mba_p       0
status      0
dtype: int64

In [7]: # checking column values data type
dataset.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 215 entries, 0 to 214
Data columns (total 13 columns):
 #   Column      Non-Null Count  Dtype
---  --
0   gender      215 non-null    object
1   ssc_p       215 non-null    float64
2   ssc_b       215 non-null    object
3   hsc_p       215 non-null    float64
4   hsc_b       215 non-null    object
5   hsc_s       215 non-null    object
6   degree_p    215 non-null    float64
7   degree_t    215 non-null    object
8   workex      215 non-null    object
9   etest_p     215 non-null    float64
10  specialisation 215 non-null    object
11  mba_p       215 non-null    float64
12  status      215 non-null    object
dtypes: float64(5), object(8)
memory usage: 22.0+ KB
```

Label Encoding Data

```
In [8]: # label encoding needs to be done to ensure all values in the dataset is numeric
# hsc_s, degree_t columns needs to be splitted into columns (get_dummies needs to be applied)
dataset.to_split(['hsc_s', 'degree_t'])
# For feature in feature, to split
dummy = pd.get_dummies(dataset[feature])
dataset = pd.concat([dataset, dummy], axis=1)
dataset.drop(feature, axis=1, inplace=True)

In [9]: dataset

Out[9]:
  gender  ssc_p  ssc_b  hsc_p  hsc_b  degree_p  workex  etest_p  specialisation  mba_p  status  Arts  Commerce  Science  Comm&Mgmt  Others  Sci&Tech
0      M  67.00  Others  91.00  Others  58.00  No  55.0  M&M&HR  58.80  Placed  0      1      0      0      0      0      1
1      M  79.33  Central  78.33  Others  77.48  Yes  86.5  M&M&Fin  66.28  Placed  0      1      0      0      0      0      1
2      M  65.00  Central  68.00  Central  64.00  No  75.0  M&M&Fin  57.80  Placed  1      0      0      0      1      0      0
3      M  56.00  Central  52.00  Central  52.00  No  66.0  M&M&HR  59.43  Not Placed  0      0      1      0      0      0      1
4      M  85.80  Central  73.60  Central  73.30  No  96.8  M&M&Fin  55.50  Placed  0      1      0      1      0      0      0
...
210     M  80.60  Others  82.00  Others  77.60  No  91.0  M&M&Fin  74.49  Placed  0      1      0      1      0      1      0
211     M  58.00  Others  60.00  Others  72.00  No  74.0  M&M&Fin  53.62  Placed  0      0      1      0      0      0      1
212     M  67.00  Others  67.00  Others  73.00  Yes  59.0  M&M&Fin  69.72  Placed  0      1      0      0      1      0      0
213     F  74.00  Others  66.00  Others  58.00  No  70.0  M&M&HR  60.23  Placed  0      1      0      1      0      0      0
214     M  62.00  Central  58.00  Others  53.00  No  89.0  M&M&HR  60.22  Not Placed  0      0      1      1      0      0      0

215 rows x 17 columns
```

```
In [10]: dataset.rename(columns={"Others": "Other_Degree"}, inplace=True)

In [11]: dataset

Out[11]:
  gender  ssc_p  ssc_b  hsc_p  hsc_b  degree_p  workex  etest_p  specialisation  mba_p  status  Arts  Commerce  Science  Comm&Mgmt  Other_Degree  Sci&Tech
0      M  67.00  Others  91.00  Others  58.00  No  55.0  M&M&HR  58.80  Placed  0      1      0      0      0      0      0      1
1      M  79.33  Central  78.33  Others  77.48  Yes  86.5  M&M&Fin  66.28  Placed  0      0      1      0      0      0      0      1
2      M  65.00  Central  68.00  Central  64.00  No  75.0  M&M&Fin  57.80  Placed  1      0      0      0      1      0      0      0
3      M  56.00  Central  52.00  Central  52.00  No  66.0  M&M&HR  59.43  Not Placed  0      0      1      0      0      0      0      1
4      M  85.80  Central  73.60  Central  73.30  No  96.8  M&M&Fin  55.50  Placed  0      1      0      1      0      0      0      0
...
210     M  80.60  Others  82.00  Others  77.60  No  91.0  M&M&Fin  74.49  Placed  0      1      0      1      0      1      0      0
211     M  58.00  Others  60.00  Others  72.00  No  74.0  M&M&Fin  53.62  Placed  0      0      1      0      0      0      0      1
212     M  67.00  Others  67.00  Others  73.00  Yes  59.0  M&M&Fin  69.72  Placed  0      1      0      0      1      0      0      0
213     F  74.00  Others  66.00  Others  58.00  No  70.0  M&M&HR  60.23  Placed  0      1      0      1      0      0      0      0
214     M  62.00  Central  58.00  Others  53.00  No  89.0  M&M&HR  60.22  Not Placed  0      0      1      1      0      0      0      0

215 rows x 17 columns
```

```
In [12]: encoder = LabelEncoder() # to encode string to the values like 0,1,2 etc.

In [13]: columns_to_encode = ['gender', 'ssc_b', 'hsc_b', 'workex', 'specialisation', 'status']
for column in columns_to_encode:
    dataset[column] = encoder.fit_transform(dataset[column])

In [14]: dataset

Out[14]:
  gender  ssc_p  ssc_b  hsc_p  hsc_b  degree_p  workex  etest_p  specialisation  mba_p  status  Arts  Commerce  Science  Comm&Mgmt  Other_Degree  Sci&Tech
0      0      1  67.00      1  91.00      1  58.00      0  55.0      1  58.80      0      1      0      0      0      0      0      1
1      1  1  79.33      1  78.33      1  77.48      1  86.5      0  66.28      1      0      0      0      0      0      0      1
2      1  1  65.00      0  68.00      0  64.00      0  75.0      0  57.80      1      1      0      0      0      1      0      0
3      1  1  56.00      0  52.00      0  52.00      0  66.0      1  59.43      0      0      0      0      1      0      0      1
4      1  1  85.80      0  73.60      0  73.30      0  96.8      0  55.50      1      0      1      0      1      0      0      0
...
210     1  1  80.60      1  82.00      1  77.60      0  91.0      0  74.49      1      0      1      0      1      0      0      0
211     1  1  58.00      1  60.00      1  72.00      0  74.0      0  53.62      1      0      0      1      0      0      0      1
212     1  1  67.00      1  67.00      1  73.00      1  59.0      0  69.72      1      0      1      0      1      0      0      0
213     0  1  62.00      1  66.00      1  58.00      0  70.0      1  60.23      1      0      1      0      1      0      0      0
214     1  1  74.00      0  58.00      1  53.00      0  89.0      1  60.22      0      0      0      1      1      0      0      0

215 rows x 17 columns
```

```
In [15]: dataset.describe()

Out[15]:
  gender      0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
count  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000  215.000000
mean    0.646512  67.303395  0.460465  66.333163  0.609302  66.370186  0.344186  12.710558  0.441860  62.278186  0.688372  0.051163  0.525681  0.423256  0.121441  0.267073  0.239466  0.121441
std     0.479168  10.827205  0.499598  10.897509  0.489045  7.358743  0.437211  13.775956  0.497767  5.833385  0.464240  0.220844  0.500510  0.422238  0.004369  0.005676  0.074850  0.004369
min     0.000000  40.890000  0.000000  37.000000  0.000000  50.000000  0.000000  50.000000  0.000000  51.210000  0.000000  0.000000  0.000000  0.000000  0.000000  0.000000  0.000000  0.000000
25%     0.000000  60.600000  0.000000  60.900000  0.000000  61.000000  0.000000  60.000000  0.000000  57.945000  0.000000  0.000000  0.000000  0.000000  0.000000  0.000000  0.000000  0.000000
50%     1.000000  67.000000  0.000000  65.000000  1.000000  66.000000  0.000000  71.000000  0.000000  62.000000  1.000000  0.000000  1.000000  1.000000  1.000000  0.000000  0.000000  0.000000
75%     1.000000  75.700000  1.000000  73.000000  1.000000  72.000000  1.000000  83.500000  1.000000  66.250000  1.000000  0.000000  1.000000  1.000000  1.000000  1.000000  1.000000  1.000000
max      0.966590  89.400000  1.000000  97.700000  1.000000  91.000000  1.000000  98.000000  1.000000  77.890000  1.000000  1.000000  1.000000  1.000000  1.000000  1.000000  1.000000  1.000000
```

Checking for Outliers

```
In [16]: fig, axs = plt.subplots(ncols=6, rows=3, figsize=(20,10))
index = 0
axs = axs.flatten()
for k, v in dataset.items():
    sns.boxplot(y=v, ax=axs[index])
    index+=1

fig.delaxes(axs[index]) # deleting the 18th figure
plt.tight_layout(pad=0.3, w_pad=0.5, h_pad = 4.5) # for styling by giving padding

In [17]: # deleting some outliers in 2 columns degree_p and hsc_p
dataset = dataset[~(dataset['degree_p']>=90)]
dataset = dataset[~(dataset['hsc_p']>=95)]
```

Checking for Correlation

```
In [18]: dataset.corr()

Out[18]:
  gender      ssc_p  ssc_b  hsc_p  hsc_b  degree_p  workex  etest_p  specialisation  mba_p  status  Arts  Commerce  Science  Comm&Mgmt
gender      1.000000  0.059813  0.017052  0.022187  0.074438  0.093325  0.081765  -0.103355  0.299466  0.098189  0.096386  0.001870  0.041426  -0.036901
ssc_p      0.059813  1.000000  0.170995  0.528111  0.056672  0.528753  0.183073  0.186409  -0.177436  0.377438  0.605381  0.194514  0.090283  0.181772  -0.168282
ssc_b      0.017052  0.170995  1.000000  -0.140332  0.609493  0.020280  0.102716  -0.018739  -0.057356  0.074563  0.033717  0.003410  0.042596  0.043708  -0.078842
hsc_p      0.022187  0.528111  -0.140332  1.000000  -0.038259  0.443595  0.135144  0.208809  -0.222405  0.339510  0.499777  0.074931  0.267073  -0.239466  0.121441
hsc_b      0.074438  0.056672  0.609493  -0.038259  1.000000  0.043618  0.039061  0.031316  -0.004762  0.073936  0.005933  -0.114855  -0.069985  0.122407  -0.019492
degree_p    0.183073  0.528753  0.020280  0.443595  0.043618  1.000000  0.135100  0.226333  -0.232618  0.376261  0.479557  0.153777  0.005676  0.074850  -0.004369
workex      0.081765  0.186409  0.102716  0.135144  0.039061  0.135100  1.000000  0.002882  -0.187200  0.174951  0.279091  0.054259  -0.070916  0.047346  -0.118781
etest_p     0.022187  0.528111  -0.140332  0.038259  0.043618  0.031316  0.226333  1.000000  -0.222765  0.203663  0.122770  0.073539  0.023192  0.056508  -0.010486
specialisation 0.183073  0.528753  0.020280  0.443595  0.043618  0.135100  0.002882  -0.222765  1.000000  -0.100456  0.051397  0.080368  0.126684  0.164258  -0.098640
mba_p      0.299466  0.377438  0.074563  0.335610  0.073936  0.376261  0.174951  0.203663  -0.100456  1.000000  0.061397  0.009640  -0.040704  0.036839  -0.087109
status      0.098189  0.096386  0.003717  0.499777  0.009933  0.479557  0.279091  0.122770  0.051397  0.061397  1.000000  0.069693  0.028377  0.002618  0.054545
Arts        0.041426  0.194514  0.003410  0.074931  0.114855  0.153777  0.054259  0.073539  0.080368  0.009640  0.069693  1.000000  0.247575  -0.199894  -0.021492
Commerce    0.043708  0.042596  0.043708  0.267073  0.069985  0.056766  0.070916  0.023192  0.126684  0.040704  0.028377  0.247575  1.000000  0.800226  0.646272
Science     0.041426  0.181772  0.043708  0.239466  0.122407  0.074850  0.047346  0.056508  0.164258  0.036839  0.002618  0.199894  0.900226  1.000000  -0.644039
Comm&Mgmt   0.022187  0.186282  0.078842  0.121441  0.019492  0.004369  0.118781  0.010486  0.098640  0.087109  0.054545  0.021492  0.646272  0.644039  1.000000
Other_Degree 0.096386  0.053459  -0.001410  -0.123137  -0.114855  0.130470  0.009501  0.009482  0.090868  -0.033441  -0.115435  0.328810  -0.204793  0.059556  -0.340428
Sci&Tech    0.069985  0.208907  0.083707  0.061747  0.077977  0.094883  0.102096  0.006296  0.058387  0.107435  0.000324  -0.141863  -0.577836  0.648230  -0.882467

In [19]: # heatmap for checking correlation or linearity
plt.figure(figsize=(20,10))
sns.heatmap(dataset.corr().abs(), annot=True)

Out[19]:
<AxesSubplot>

In [20]: dataset.shape
(212, 17)

Out[20]:
# checking distributions of all features
fig, axs = plt.subplots(ncols=6, rows=3, figsize=(20,10))
index = 0
axs = axs.flatten()
for k, v in dataset.items():
    sns.distplot(v, ax=axs[index])
    index+=1

fig.delaxes(axs[index]) # deleting the 18th figure
plt.tight_layout(pad=0.3, w_pad=0.2, h_pad = 4.5)

C:\Users\Green zone\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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