Importing Libraries

In [1]:
```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
```

Loading the Dataset

In [2]:
```
data=pd.read_csv('Admission_Predict.csv')
data
```

Out[2]:

	Serial No.	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
0	1	337	118	4	4.5	4.5	9.65	1	0.92
1	2	324	107	4	4.0	4.5	8.87	1	0.76
2	3	316	104	3	3.0	3.5	8.00	1	0.72
3	4	322	110	3	3.5	2.5	8.67	1	0.80
4	5	314	103	2	2.0	3.0	8.21	0	0.65
...	...	...	...	...	...	...	...	...	...
395	396	324	110	3	3.5	3.5	9.04	1	0.82
396	397	325	107	3	3.0	3.5	9.11	1	0.84
397	398	330	116	4	5.0	4.5	9.45	1	0.91
398	399	312	103	3	3.5	4.0	8.78	0	0.67
399	400	333	117	4	5.0	4.0	9.66	1	0.95

400 rows × 9 columns

Splitting The Data Into Train And Test

In [3]:
```
y=data['GRE Score']
y
```

Out[3]:
```
0      337
1      324
2      316
3      322
4      314
      ...
395    324
396    325
397    330
398    312
399    333
Name: GRE Score, Length: 400, dtype: int64
```

In [4]:
```
x=data.drop(columns=['GRE Score'],axis=1)
x.head()
```

Out[4]:

	Serial No.	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
0	1	118	4	4.5	4.5	9.65	1	0.92
1	2	107	4	4.0	4.5	8.87	1	0.76
2	3	104	3	3.0	3.5	8.00	1	0.72
3	4	110	3	3.5	2.5	8.67	1	0.80
4	5	103	2	2.0	3.0	8.21	0	0.65

In [5]:
```
from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2, random_state=50)
```

In [6]:
```
x_train.shape
```

Out[6]:
```
(320, 8)
```

In [7]:
```
x_test.shape
```

Out[7]: (80, 8)

In [8]:
```
y_train.shape
```

Out[8]: (320,)

In [9]:
```
y_test.shape
```

Out[9]: (80,)

In [10]:
```
print(x_train.shape,x_test.shape)
```

```
(320, 8) (80, 8)
```

In [ ]:
```

```