

ANALYZE THE DATA

UNIVERSITY ADMIT ELIGIBILITY PREDICTOR

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head() method is used to return top n (5 by default) rows of a DataFrame or series.

```
data.head()
```

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

Let us drop Serial No. Column as it is not required for prediction.

```
In [3]: data.drop(["Serial No."], axis=1, inplace=True)
```

```
In [4]: data.head()
```

Out[4]:

	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
0	337	118	4	4.5	4.5	9.65	1	0.92
1	324	107	4	4.0	4.5	8.87	1	0.76
2	316	104	3	3.0	3.5	8.00	1	0.72
3	322	110	3	3.5	2.5	8.67	1	0.80
4	314	103	2	2.0	3.0	8.21	0	0.65

describe() method computes a summary of statistics like count, mean, standard deviation, min, max, and quartile values.

```
In [5]: data.describe()
```

Out[5]:

	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
count	400.000000	400.000000	400.000000	400.000000	400.000000	400.000000	400.000000	400.000000
mean	316.807500	107.410000	3.087500	3.400000	3.452500	8.598925	0.547500	0.724350
std	11.473646	6.069514	1.143728	1.006869	0.898478	0.596317	0.498362	0.142609
min	290.000000	92.000000	1.000000	1.000000	1.000000	6.800000	0.000000	0.340000
25%	308.000000	103.000000	2.000000	2.500000	3.000000	8.170000	0.000000	0.640000
50%	317.000000	107.000000	3.000000	3.500000	3.500000	8.610000	1.000000	0.730000
75%	325.000000	112.000000	4.000000	4.000000	4.000000	9.062500	1.000000	0.830000
max	340.000000	120.000000	5.000000	5.000000	5.000000	9.920000	1.000000	0.970000

ANALYZE THE DATA

info() gives information about the data.

```
In [6]: data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 400 entries, 0 to 399
Data columns (total 8 columns):
#   Column              Non-Null Count  Dtype
---  -
0   GRE Score           400 non-null    int64
1   TOEFL Score         400 non-null    int64
2   University Rating   400 non-null    int64
3   SOP                 400 non-null    float64
4   LOR                 400 non-null    float64
5   CGPA                400 non-null    float64
6   Research            400 non-null    int64
7   Chance of Admit     400 non-null    float64
dtypes: float64(4), int64(4)
memory usage: 25.1 KB
```