

MINI PROJECT 1

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Year-M-Tech 2nd year

URL of dataset-

<https://www.kaggle.com/datasets/akshaydattatraykhare/data-for-admission-in-the-university>

```
#create dataframe
import pandas as pd
df=pd.read_csv('/content/adm_data (1).csv')
df
```

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

400 rows × 9 columns

```
df.info
```

<bound method DataFrame.info of				Serial No.	GRE Score	TOEFL Score	University		
Rating	SOP	LOR	CGPA \						
0		1	337	118	4	4.5	4.5	9.65	
1		2	324	107	4	4.0	4.5	8.87	
2		3	316	104	3	3.0	3.5	8.00	
3		4	322	110	3	3.5	2.5	8.67	
4		5	314	103	2	2.0	3.0	8.21	
..		
395		396	324	110	3	3.5	3.5	9.04	
396		397	325	107	3	3.0	3.5	9.11	
397		398	330	116	4	5.0	4.5	9.45	
398		399	312	103	3	3.5	4.0	8.78	
399		400	333	117	4	5.0	4.0	9.66	

	Research	Chance of Admit
0	1	0.92
1	1	0.76
2	1	0.72
3	1	0.80
4	0	0.65
..
395	1	0.82

396	1	0.84
397	1	0.91
398	0	0.67
399	1	0.95

```
[400 rows x 9 columns]>
```

```
df.shape
```

```
(400, 9)
```

```
df.size #Total number of elements in the dataframe
```

```
3600
```

```
#TO officially check the null values or missing values
```

```
df.isnull().sum()
```

Serial No.	0
GRE Score	0
TOEFL Score	0
University Rating	0
SOP	0
LOR	0
CGPA	0
Research	0
Chance of Admit	0

```
dtype: int64
```

```
#I want to find out the exact count of unique elements in each and every column
```

```
df.nunique()
```

Serial No.	400
GRE Score	49
TOEFL Score	29
University Rating	5
SOP	9
LOR	9
CGPA	168
Research	2
Chance of Admit	60

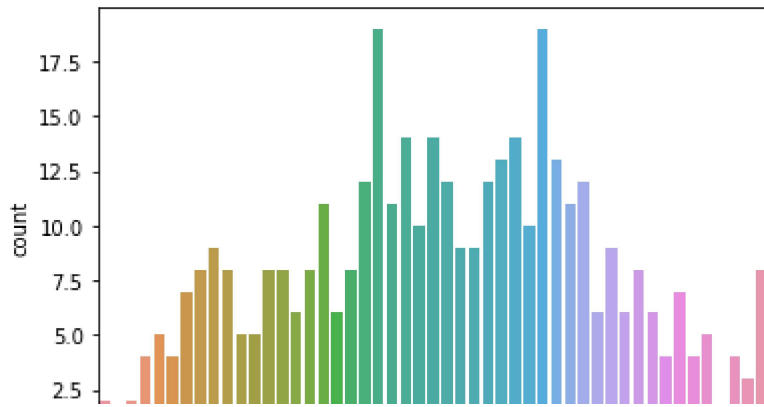
```
dtype: int64
```

```
#VISUALISATION
```

```
import seaborn as sns
```

```
sns.countplot(x = 'GRE Score',data = df)
```

<matplotlib.axes._subplots.AxesSubplot at 0x7fab2751b410>



```
#To find how many gets more same GRE score
df.groupby('GRE Score').size()
```

GRE Score

```
290    2
293    1
294    2
295    4
296    5
297    4
298    7
299    8
300    9
301    8
302    5
303    5
304    8
305    8
306    6
307    8
308   11
309    6
310    8
311   12
312   19
313   11
314   14
315   10
316   14
317   12
318    9
319    9
320   12
321   13
322   14
323   10
324   19
325   13
326   11
327   12
328    6
329    9
```

```

330    6
331    8
332    6
333    4
334    7
335    4
336    5
337    1
338    4
339    3
340    8
dtype: int64

```

```

#To find mostly repeated CGPA
df.groupby('CGPA').size()

```

```

CGPA
6.80    1
7.20    1
7.25    1
7.28    1
7.30    1
..
9.80    3
9.82    1
9.87    1
9.91    1
9.92    1
Length: 168, dtype: int64

```

```

#to find repeated GRE score and CGPA
a=df.groupby(["GRE Score","CGPA"]).size()
a

```

```

GRE Score  CGPA
290        7.46    1
          7.56    1
293        7.80    1
294        7.36    1
          7.64    1
..
340        9.60    2
          9.66    1
          9.74    1
          9.91    1
          9.92    1
Length: 385, dtype: int64

```

```

import numpy as np
a

```

```

GRE Score  CGPA
290        7.46    1

```

```
      7.56    1
293    7.80    1
294    7.36    1
      7.64    1
      ..
340    9.60    2
      9.66    1
      9.74    1
      9.91    1
      9.92    1
Length: 385, dtype: int64
```

```
#to find maximum CGPA
np.max(df['CGPA'])
```

```
9.92
```

```
#to find maximum GRE
np.max(df['GRE Score'])
```

```
340
```

```
np.min(df['GRE Score'])
```

```
290
```

```
np.min(df['CGPA'])
```

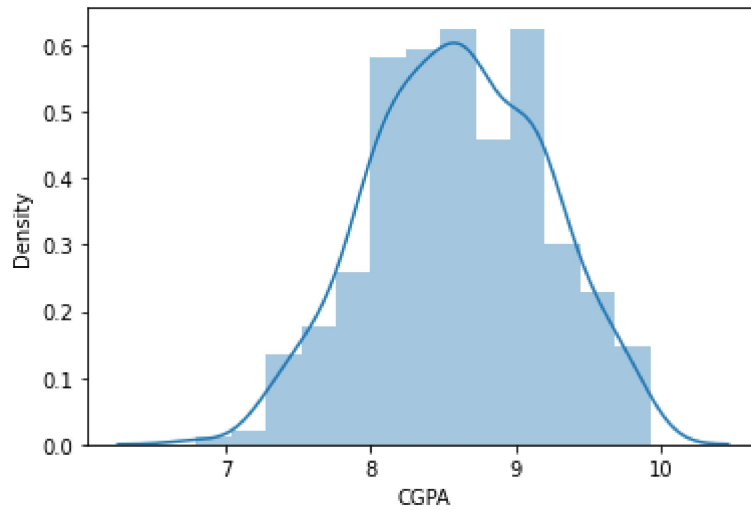
```
6.8
```

```
#To find total toppers
Toppers = np.sum((df['CGPA']>=9.92))
Toppers
```

```
1
```

```
#DISTRIBUTION PLOT
sns.distplot(df['CGPA'])
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: FutureWarning: `d
warnings.warn(msg, FutureWarning)
<matplotlib.axes._subplots.AxesSubplot at 0x7fab26e79650>
```



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