## **Future Interns Task 3**

```
In [1]:
                 import pandas as pd
                 import matplotlib.pyplot as plt
                 import seaborn as sns
In [9]:
                df = pd.read_csv('student_feedback.csv')
              1 df
In [10]:
   Out[10]:
```

	S/N	Student ID	Well versed with the subject	Explains concepts in an understandable way	Use of presentations	Degree of difficulty of assignments	doubts	Structuring of the course	support for students going above and beyond	recommen ba reli
0	1	340	5	2	7	6	9	2	1	
1	2	253	6	5	8	6	2	1	2	
2	3	680	7	7	6	5	4	2	3	
3	4	806	9	6	7	1	5	9	4	
4	5	632	8	10	8	4	6	6	9	
996	997	55	8	7	6	2	5	7	7	
997	998	913	5	5	6	5	6	7	6	
998	999	199	9	5	8	3	8	1	1	
999	1000	539	10	2	7	4	3	4	10	
1000	1001	759	7	2	4	2	1	5	9	

1001 rows × 10 columns

```
1 df_cleaned = df.drop(columns=["S/N", "Student ID"])
In [24]:
```

**Provides** 

In [27]: ▶ 1 df\_cleaned

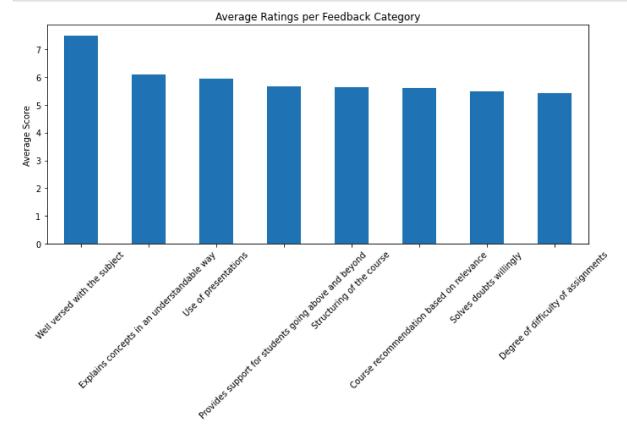
Out[27]:

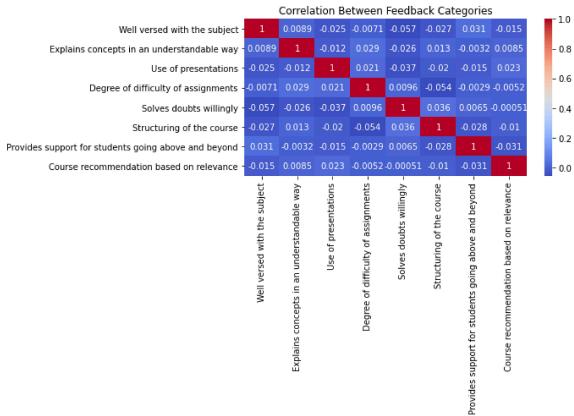
	Well versed with the subject	Explains concepts in an understandable way	Use of presentations	Degree of difficulty of assignments	Solves doubts willingly	Structuring of the course	Provides support for students going above and beyond	Course recommendation based on relevance
0	5	2	7	6	9	2	1	8
1	6	5	8	6	2	1	2	9
2	7	7	6	5	4	2	3	1
3	9	6	7	1	5	9	4	6
4	8	10	8	4	6	6	9	9
996	8	7	6	2	5	7	7	9
997	5	5	6	5	6	7	6	1
998	9	5	8	3	8	1	1	2
999	10	2	7	4	3	4	10	1
1000	7	2	4	2	1	5	9	9

1001 rows × 8 columns

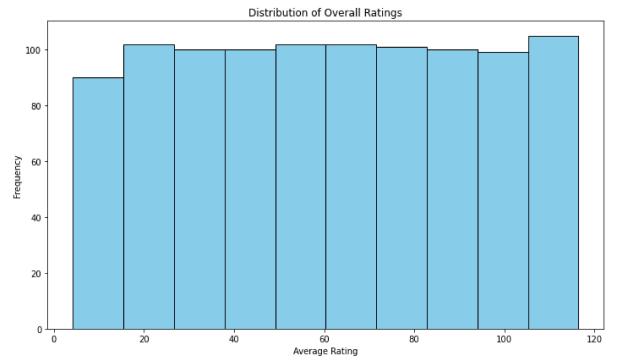
In [29]: ▶ 1 average\_ratings

```
Out[29]: Well versed with the subject
                                                                 7,497502
         Explains concepts in an understandable way
                                                                 6.081918
         Use of presentations
                                                                 5.942058
         Provides support for students going above and beyond
                                                                 5.662338
         Structuring of the course
                                                                 5.636364
         Course recommendation based on relevance
                                                                 5.598402
         Solves doubts willingly
                                                                 5.474525
         Degree of difficulty of assignments
                                                                 5.430569
         dtype: float64
```





```
In [40]: ► df["Overall Rating"] = df.drop(columns=["Student ID"]).mean(axis=1)
```



In [47]: ▶ 1 top\_3

Out[47]: Well versed with the subject 7.497502 Explains concepts in an understandable way 6.081918 Use of presentations 5.942058

dtype: float64

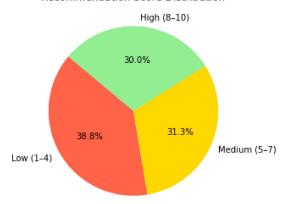
In [48]: ► 1 bottom\_3

Out[48]: Course recommendation based on relevance Solves doubts willingly 5.474525
Degree of difficulty of assignments 5.430569

dtype: float64

```
1 df["Course recommendation based on relevance"].value_counts(
In [52]:
                     bins=[0, 4, 7, 10], sort=True
              3
                 ).plot.pie(
              4
                     labels=["Low (1-4)", "Medium (5-7)", "High (8-10)"],
              5
                     autopct='%1.1f%%',
              6
                     startangle=140,
              7
                     colors=["tomato", "gold", "lightgreen"]
                 )
              8
              9 plt.title("Recommendation Score Distribution")
             10 plt.ylabel("")
             11 plt.tight layout()
             12 plt.show()
             13
```

## Recommendation Score Distribution



```
1 df["Overall Rating"].describe()
In [53]: ▶
   Out[53]: count
                      1001.000000
                        60.924853
             mean
             std
                        32.127932
             min
                        4.222222
             25%
                        33.111111
             50%
                        61.111111
             75%
                        88.555556
                       116.444444
             max
             Name: Overall Rating, dtype: float64
In [ ]: ▶
              1
```