```
from google.colab import files
uploaded = files.upload()
```

Choose Files student_feedback.csv

- **student_feedback.csv**(text/csv) - 24877 bytes, last modified: 8/22/2025 - 100% done

```
Saving student_feedback.csv to student_feedback (2).csv
```

```
import pandas as pd

# Load the uploaded file
df = pd.read_csv("student_feedback.csv")   # use the exact file name

# Show first 5 rows
df.head()
```

	Unnamed: 0	Student ID	Well versed with the subject	Explains concepts in an understandable way	Use of presentations	Degree of difficulty of assignments	Solves doubts willingly	Str
	0	340	5	2	7	6	9	
	1	253	6	5	8	6	2	
	2	680	7	7	6	5	4	
	3	806	9	6	7	1	5	
	4	632	8	10	8	4	6	

Next steps: Generate code with df View recommended plots New interactive sheet

```
import pandas as pd

df = pd.read_csv("student_feedback.csv")
df.head()
```

	Unnamed: 0	Student ID	Well versed with the subject	Explains concepts in an understandable way	Use of presentations	Degree of difficulty of assignments	Solves doubts willingly	St
0	0	340	5	2	7	6	9	
1	1	253	6	5	8	6	2	
2	2	680	7	7	6	5	4	
3	3	806	9	6	7	1	5	
4	4	632	8	10	8	4	6	

Next steps: Generate code with df | View recommended plots | New interactive sheet

```
import pandas as pd

# Load the uploaded CSV
df = pd.read_csv("student_feedback.csv")

# Show first few rows
df.head()
```

	Unnamed: 0	Student ID	Well versed with the subject	Explains concepts in an understandable way	Use of presentations	Degree of difficulty of assignments	Solves doubts willingly	St
0	0	340	5	2	7	6	9	
1	1	253	6	5	8	6	2	
2	2	680	7	7	6	5	4	
3	3	806	9	6	7	1	5	
4	4	632	8	10	8	4	6	

Next steps: Generate code with df | View recommended plots | New interactive sheet

```
print(df.columns.tolist())
```

```
upport for students going above and beyond', 'Course recommendation based on relevance']
```

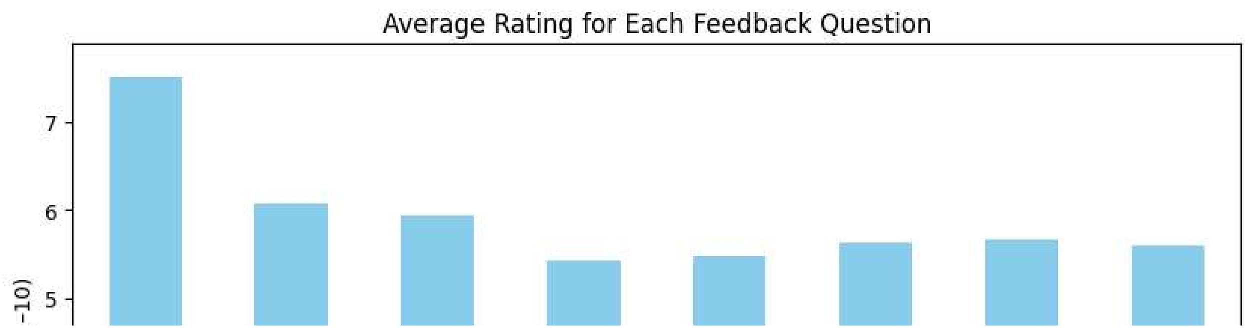
```
import pandas as pd

# Load CSV
df = pd.read_csv("/content/student_feedback.csv")

# Drop the unnecessary index column
df = df.drop(columns=['Unnamed: 0'])

# Show first few rows
print(df.head())

# Convert all feedback columns (except Student ID) to numeric (in case some values are text)
for col in df.columns:
    if col != 'Student ID':
        df[col] = pd.to_numeric(df[col], errors='coerce')

# Drop rows where all feedback is missing
df = df.dropna(how='all', subset=df.columns[1:])

# Calculate average rating per question
avg_per_question = df.drop(columns=['Student ID']).mean()

print("\nAverage rating for each feedback question:\n")
print(avg_per_question)

# Calculate overall average rating per student
df['Overall Average'] = df.drop(columns=['Student ID']).mean(axis=1)

print("\nOverall average rating per student:\n")
print(df[['Student ID', 'Overall Average']].head())
```

```
3        806                             9
4        632                             8

   Explains concepts in an understandable way  Use of presentations  \
0                                           2                     7
1                                           5                     8
2                                           7                     6
3                                           6                     7
4                                          10                     8

   Degree of difficulty of assignments  Solves doubts willingly  \
0                                    6                        9
```

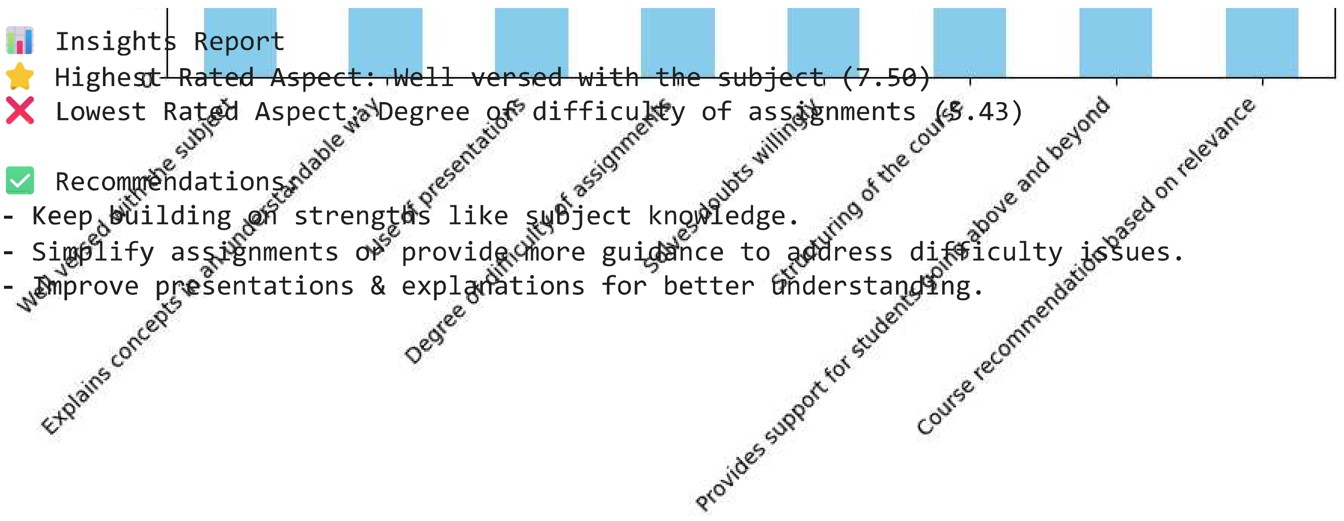
```
   Structuring of the course  \
0                          2
1                          1
2                          2
3                          9
4                          6

   Provides support for students going above and beyond  \
0                                                  1
1                                                  2
2                                                  3
3                                                  4
4                                                  9

   Course recommendation based on relevance
0                                         8
1                                         9
2                                         1
3                                         6
4                                         9

Average rating for each feedback question:

Well versed with the subject                            7.497502
Explains concepts in an understandable way              6.081918
Use of presentations                                    5.942058
Degree of difficulty of assignments                     5.430569
Solves doubts willingly                                 5.474525
Structuring of the course                               5.636364
Provides support for students going above and beyond    5.662338
Course recommendation based on relevance                5.598402
dtype: float64

Overall average rating per student:

   Student ID  Overall Average
0         340            5.000
1         253            4.875
2         680            4.375
3         806            5.875
4         632            7.500
```

```python
import matplotlib.pyplot as plt

# --- Bar Chart: Average per Question ---
avg_ratings = df.iloc[:, 1:-1].mean()   # exclude Student ID & Overall Average

plt.figure(figsize=(10,6))
avg_ratings.plot(kind='bar', color='skyblue')
plt.title("Average Rating for Each Feedback Question")
plt.ylabel("Average Rating (1–10)")
plt.xticks(rotation=45, ha='right')
plt.show()
```

```
    # --- Histogram: Overall Averages ---
    plt.figure(figsize=(8,5))
    plt.hist(df['Overall Average'], bins=10, edgecolor='black')
    plt.title("Distribution of Overall Student Ratings")
    plt.xlabel("Average Rating")
    plt.ylabel("Number of Students")
    plt.show()
```



```
print("📊 Insights Report")
print(f"⭐ Highest Rated Aspect: {avg_ratings.idxmax()} ({avg_ratings.max():.2f})")
print(f"❌ Lowest Rated Aspect: {avg_ratings.idxmin()} ({avg_ratings.min():.2f})")

print("\n✅ Recommendations:")
print("- Keep building on strengths like subject knowledge.")
print("- Simplify assignments or provide more guidance to address difficulty issues.")
print("- Improve presentations & explanations for better understanding.")
```



```
📊 Insights Report
⭐ Highest Rated Aspect: Well versed with the subject (7.50)
❌ Lowest Rated Aspect: Degree of difficulty of assignments (5.43)

✅ Recommendations:
- Keep building on strengths like subject knowledge.
- Simplify assignments or provide more guidance to address difficulty issues.
- Improve presentations & explanations for better understanding.
```