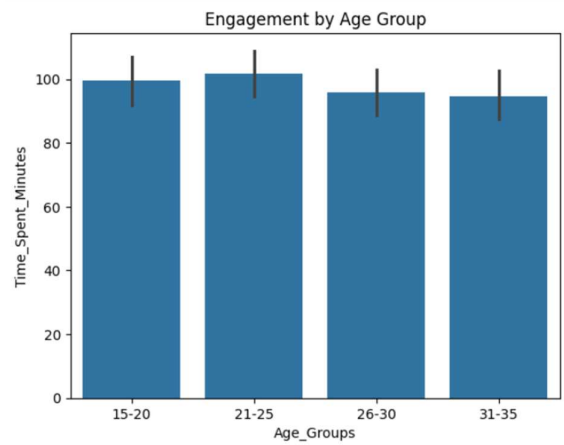


# Zylentrix Assessment

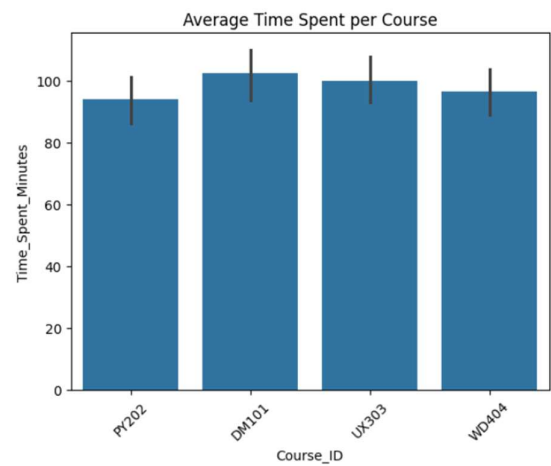
```
[60]: # Engagement by Age Group
sns.barplot(data = merge_col, x = 'Age_Groups', y = 'Time_Spent_Minutes')
plt.title("Engagement by Age Group")
plt.show()
```



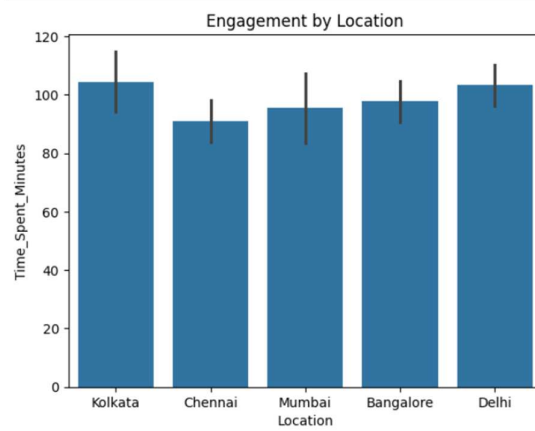
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JupyterLab
Python 3 (ipykernel)

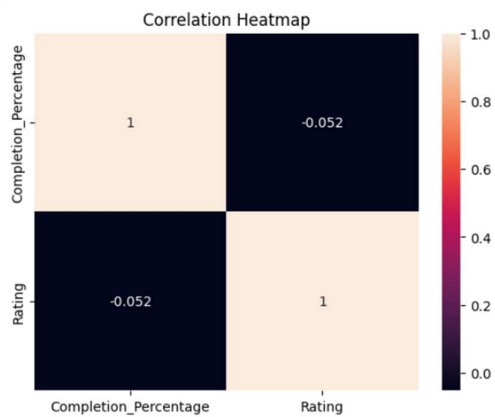
```
[59]: # Avg time spend per course
sns.barplot(data = course_activity_df, x = 'Course_ID', y = 'Time_Spent_Minutes')
plt.title("Average Time Spent per Course")
plt.xticks(rotation = 45)
plt.show()
```



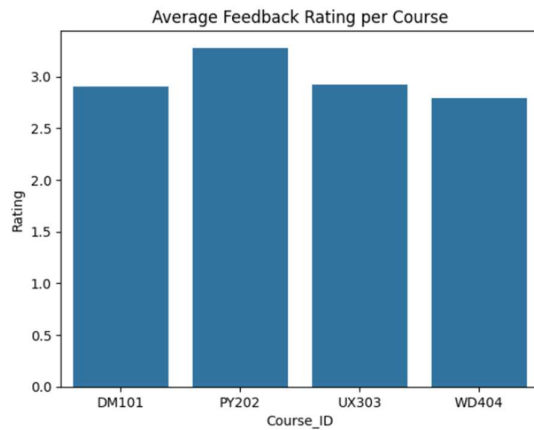
```
[50]: # Engagement by Location
sns.barplot(data = merge_col, x = 'Location', y = 'Time_Spent_Minutes')
plt.title("Engagement by Location")
plt.show()
```



```
[58]: ##Correlation between Rating & Completion_Percentage
sns.heatmap(merge_cols[['Completion_Percentage', 'Rating']].corr(), annot=True)
plt.title("Correlation Heatmap")
plt.show()
```

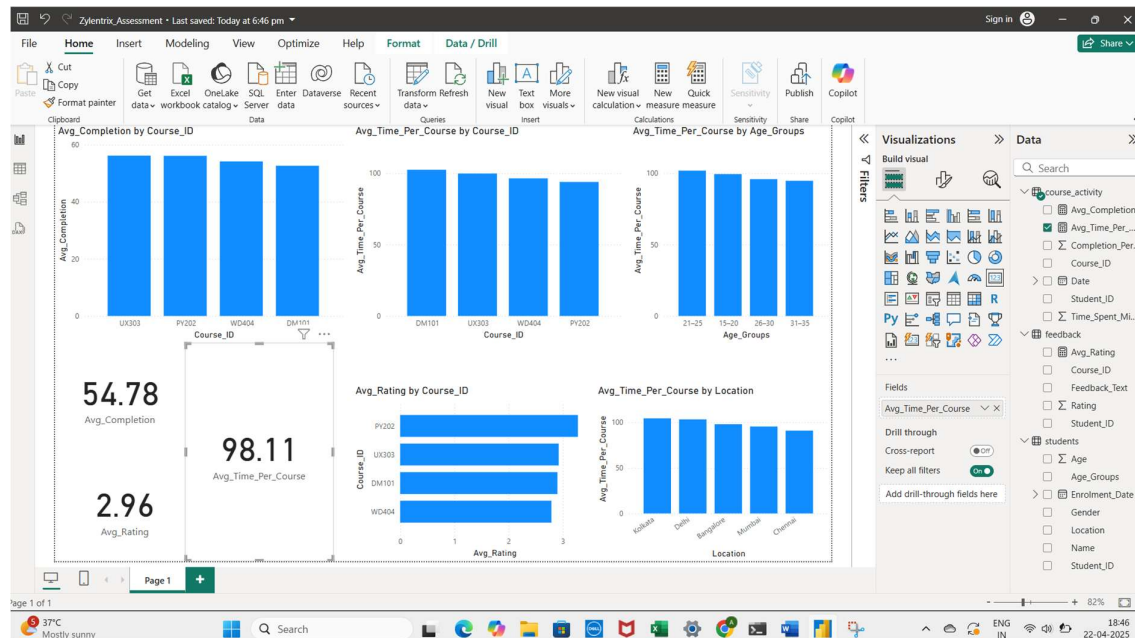


```
[57]: ## Average feedback rating per course
sns.barplot(data = avg_feedback, x = 'Course_ID', y = 'Rating')
plt.title("Average Feedback Rating per Course")
plt.show()
```



```
[ ]:
```

I have created a dashboard using Power BI and also done data loading , data transformation(cleaning), data modelling and using DAX functions created measures like Average\_completion, Avg\_Rating and Avg\_Time\_per\_Course.



Used Clustered Bar Chart, Card Chart , Clustered Column Chart, Stacked Column Chart.

### **Insights and recommendations**

- **Age groups between 21 - 25 and 15 – 20 are most engaged in the courses. Age group 31-35 are less engaged.**
- **Engagement is lowest in the Chennai city and highest in the Kolkata and Delhi.**
- **Course DM101 has highest average engagement time but rating is quite low.**
- **Course PY202 has the highest rating but engagement time is lowest.**
- **S036 and S081 are those students who spend more time per course and also had given good ratings.**

### **Recommendations**

- **Improve course content of WD404 so that the demand would increase.**
- **Introduce a progress tracker or set the reminders for completion of the specific task so that with the help of reminder the course will be completed.**
- **Take a survey in those cities who's engagement time is less. So that we come to know the problem among them.**