

A thick dark blue vertical bar is positioned on the left side of the page. A blue arrow-shaped graphic points to the right, containing the date. In the bottom left corner, there are several thin, curved, light blue lines that sweep upwards and to the right.

8/30/2023

# Insights of Successful Students

**Project Report**

**Submitted to Cloud Counselage Pvt. Ltd**

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CLOUD COUNSELAGE PVT. LTD

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# INSIGHTS OF SUCCESSFUL STUDENTS

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## INTRODUCTION

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In today's dynamic educational and professional landscape, understanding the factors influencing the success of student interns is crucial. This project aims to conduct a comprehensive analysis of student interns to gain insights into the relationship between their academic performance, event participation, career aspirations, and the various factors that contribute to their success. To achieve this, we have collected a comprehensive dataset containing various attributes for each student intern.

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## PROJECT OBJECTIVES

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1. Analyze the academic performance of student interns, including GPA, course performance, and relevant metrics.
2. Investigate the extent of event participation by student interns in extracurricular and professional development activities.
3. Examine the career aspirations and goals of student interns, including their desired career paths and industries.
4. Identify and assess the factors that influence the success of student interns, such as mentorship, support systems, and personal attributes.

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# DATA COLLECTION

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To achieve our objectives, we collected a dataset containing the following attributes for each student intern:

1. **Academic Performance Metrics:** This includes GPA, course grades, and academic achievements.
2. **Event Participation:** Information about the student's involvement in events, clubs, workshops, and seminars.
3. **Career Aspirations:** Data on the student's desired career path, industry preferences, and long-term goals.
4. **Factors Influencing Success:** Details about mentorship, support systems, and personal attributes like resilience, adaptability, and interpersonal skills.

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# METHODOLOGY

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1. We conducted a thorough analysis of the dataset using statistical and data analysis techniques, including data visualization, correlation analysis, and regression modelling. This allowed us to identify trends, patterns, and relationships between different variables.
2. Firstly, we need to cleaning the data on Excel. Remove the duplicates values, and also clean or remove the unnecessary data from our datasets. Then transform the data.
3. After we need to extract the meaningful insights from the data set. We need to visualize the data with the help of python or another visualization tools.
4. Plot the trends or pattern on BI tool, create the attractive dashboard or report for better understanding of stakeholders and other team members.
5. I followed the python libraires for data visualizations.

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In [1]:  
# Current working directory:  
import os  
os.getcwd()

Out[1]:  
'C:\\Users\\ranub\\Downloads'

In [2]:  
os.chdir("C:\\Users\\ranub\\Downloads")

In [3]:  
import pandas as pd  
import numpy as np

In [4]:  
data = pd.read\_excel("data\_analystdata.xlsx")

In [5]:  
data

Out[5]:

	Quantity	Events	Attendee Status	College Name	How did you come to know about this event?	Specify in "Others" (how did you come to know about this event)	Designation	Year of Graduation	City	CGPA	Experience with python (Months)	Family Income	Expected salary (Lac)	Leadership-skills
1	Art of Resume Building	Attending	D Y PATIL INSTITUTE OF MCA AND MANAGEMENT AKUR...	Email	NaN	Students	2024	Patna	6.7	7	7 Lakh+	6	yes	
1	Art of Resume Building	Attending	AP SHAH INSTITUTE OF TECHNOLOGY	Others	College	Students	2024	Amravati	8.2	3	0-2 Lakh	7	no	
			Don Bosco											

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# RESULTS AND FINDINGS

Our analysis revealed several significant findings:

1. A positive correlation between academic performance and participation in extracurricular activities, suggesting that active involvement in events positively influences GPA.
2. Student interns with clearly defined career aspirations are more likely to actively engage in career-related events and workshops.
3. Mentorship and support from faculty and professionals play a vital role in student intern success.
4. Personal attributes like resilience and adaptability are strong predictors of success among student interns.
5. I have got the awesome results. I have attached the screenshots of results and findings for better understanding.

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ID	Name	Email ID	Experience	Education	Institute	Location	Year	Score	Rank	Grade
4891	Suryaprakash	NaN	1	Data Visualization using Power BI	vishwakarma institute of technology, pune	Thane	2024	6.9	5	0-2 Lakh
4892	Saif ali	NaN	1	Data Visualization using Power BI	mit academy of engineering, alandi	Patiala	2024	9.0	3	0-2 Lakh
4893	Lankesh	NaN	1	Data Visualization using Power BI	a. c. patil college of engineering	Sangrur	2025	7.2	8	0-2 Lakh

### BASIC QUESTIONS

#### How many unique students are included in the dataset

In [9]: # Assuming the dataset has a column named 'Email ID' for student identification  
unique\_students = data['Email ID'].nunique()  
print(f"Number of unique students: {unique\_students}")

Number of unique students: 2157

#### What is the average GPA of the students

In [10]: # Assuming the dataset has a column named 'CGPA' for GPA  
average\_gpa = data['CGPA'].mean()  
print(f"Average GPA of the students: {average\_gpa:.2f}")

Average GPA of the students: 8.04

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It is first two questions Visualization's.

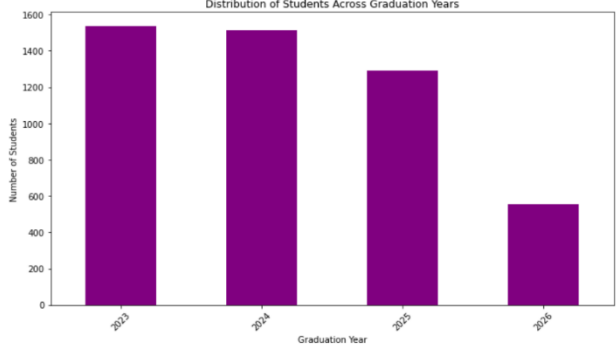
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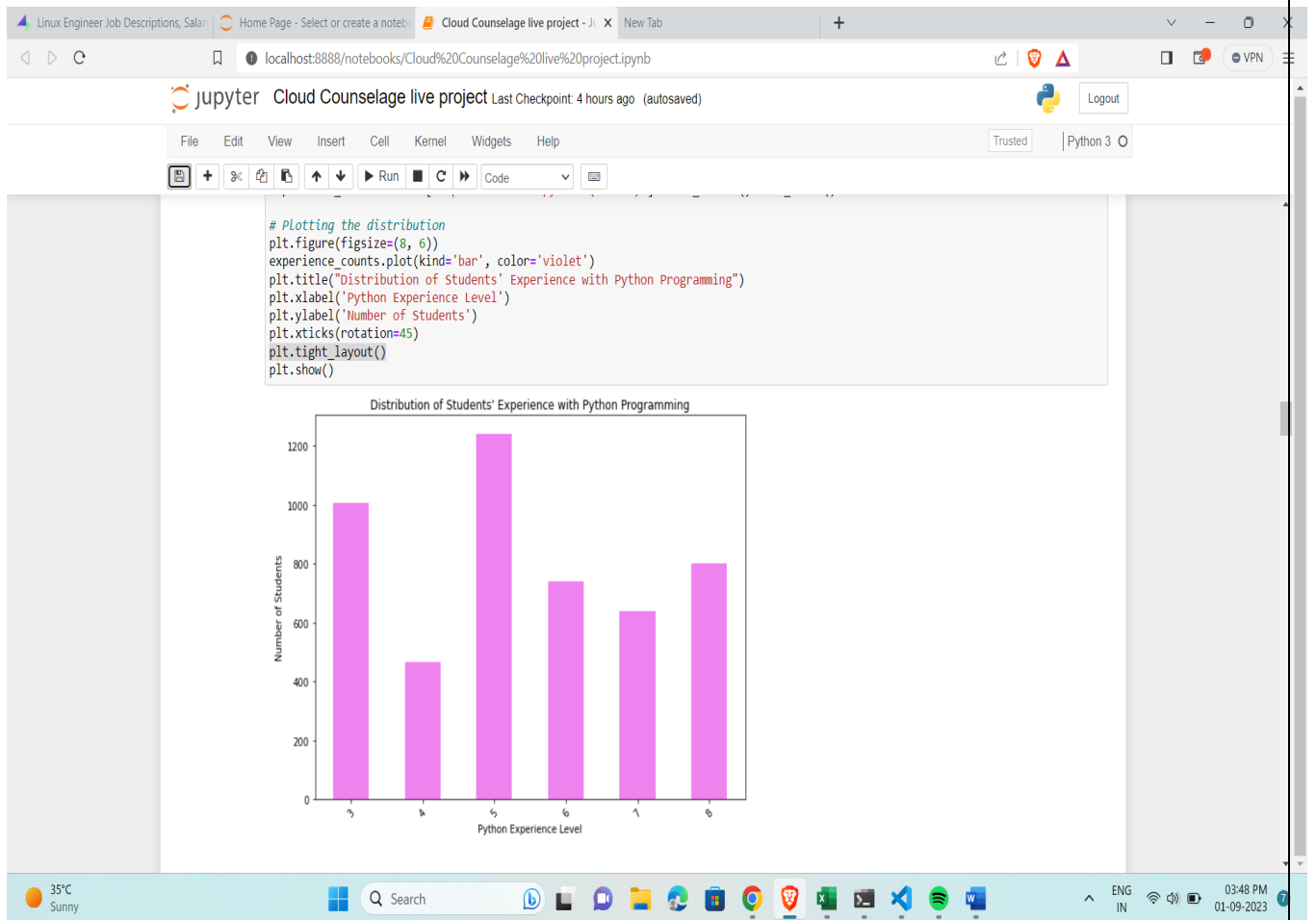
```
# Plotting the distribution
plt.figure(figsize=(10, 6))
graduation_counts.plot(kind='bar', color='purple')
plt.title("Distribution of Students Across Graduation Years")
plt.xlabel('Graduation Year')
plt.ylabel('Number of Students')
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()
```

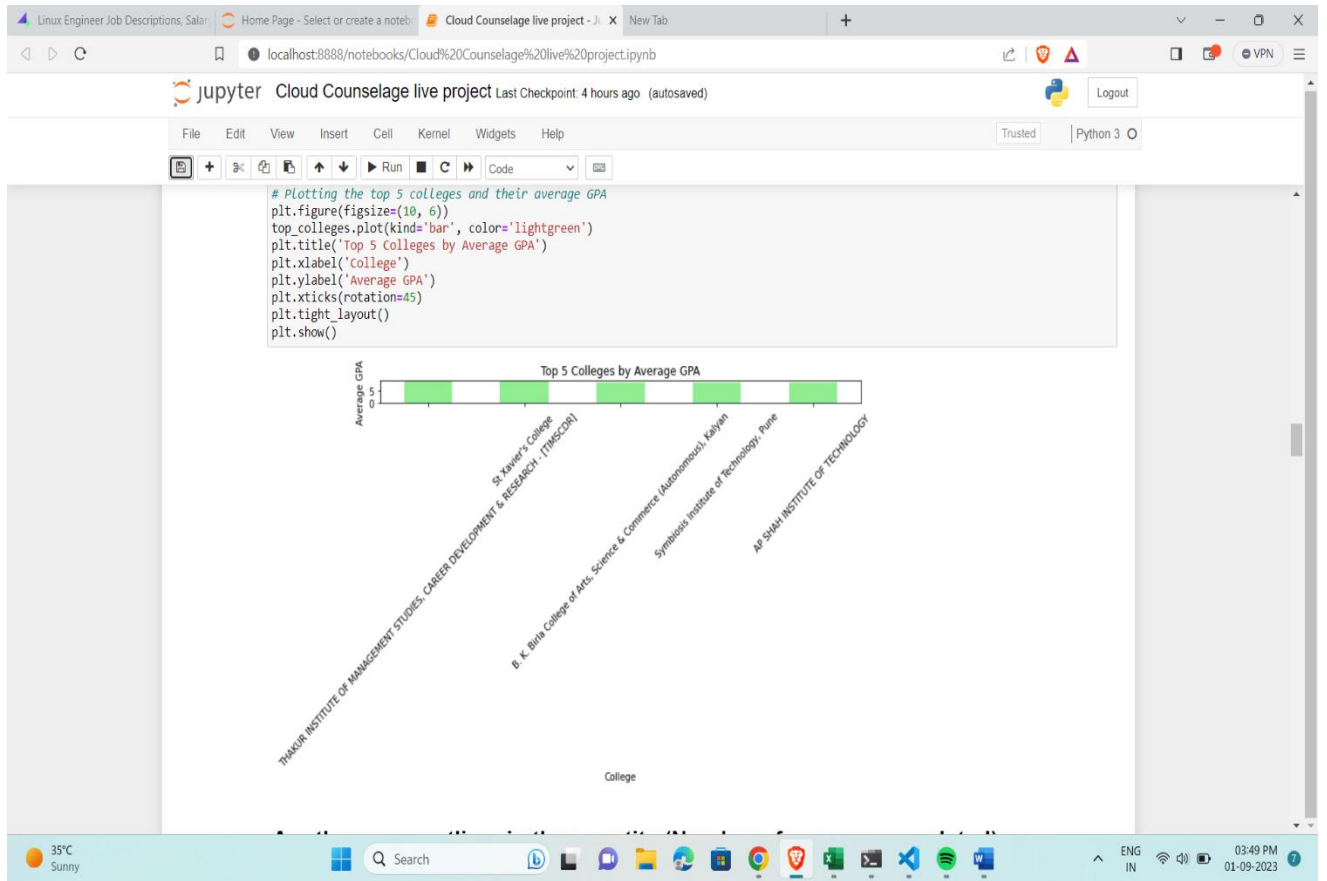


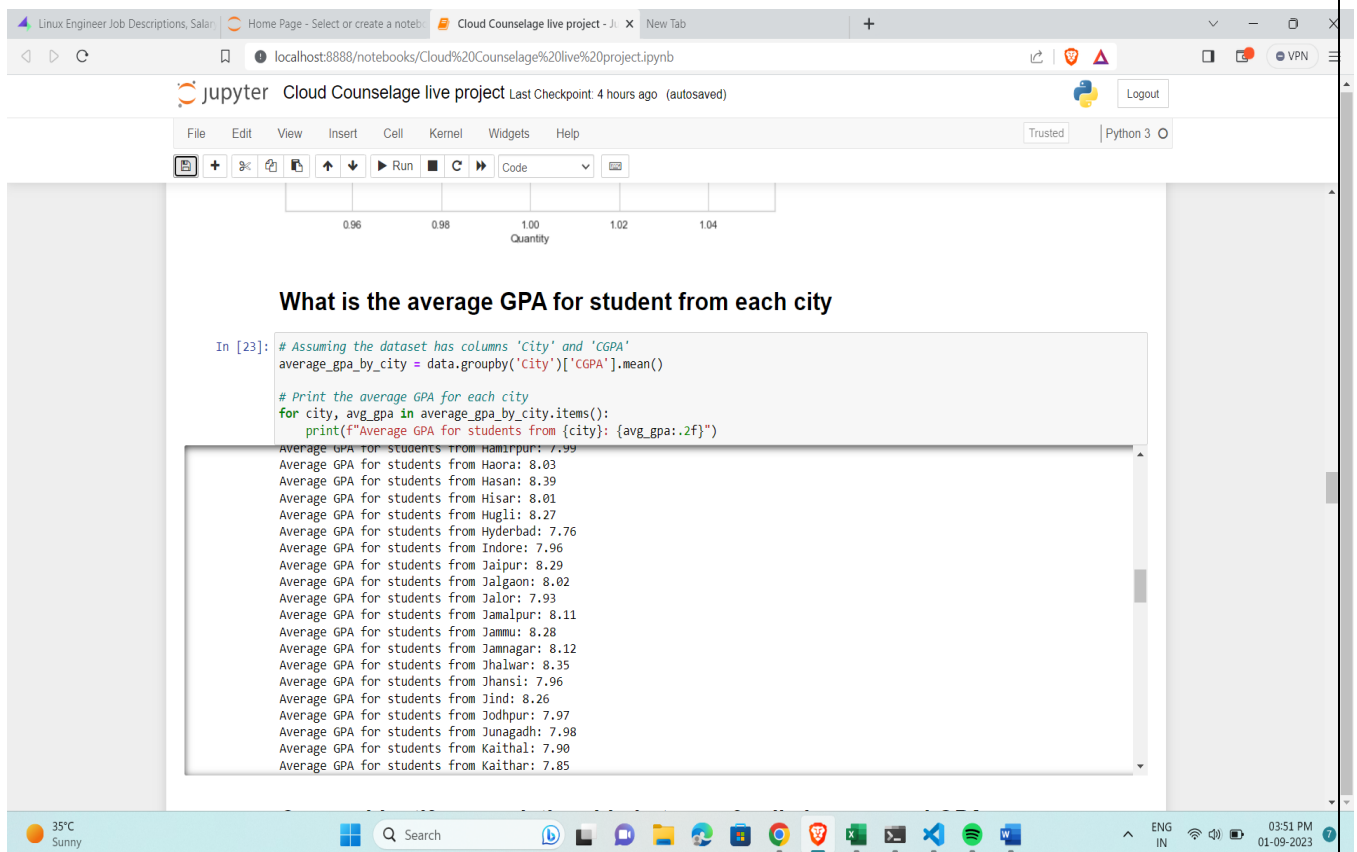
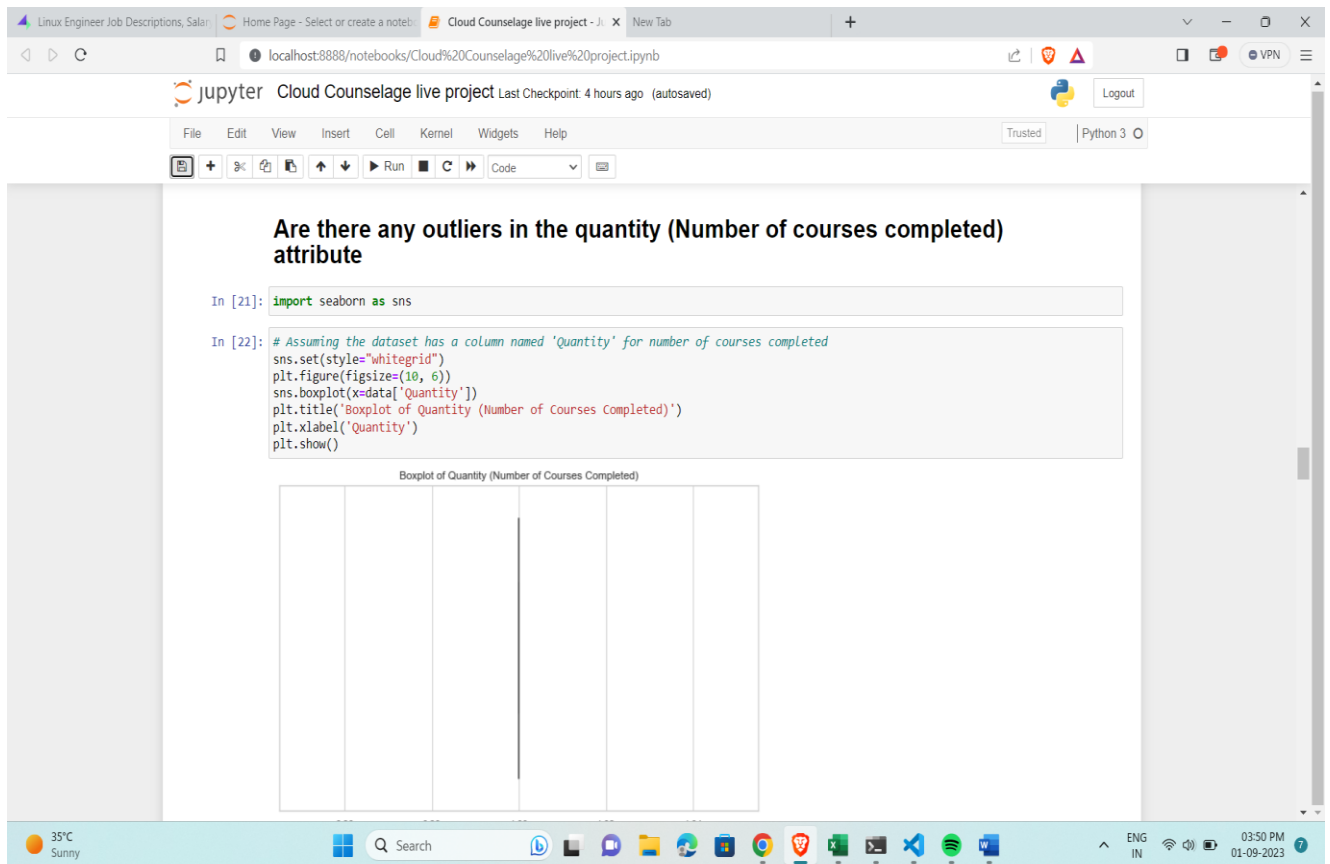
Graduation Year	Number of Students
2023	1500
2024	1500
2025	1300
2026	550

### What is the distribution of student's experience with python programming

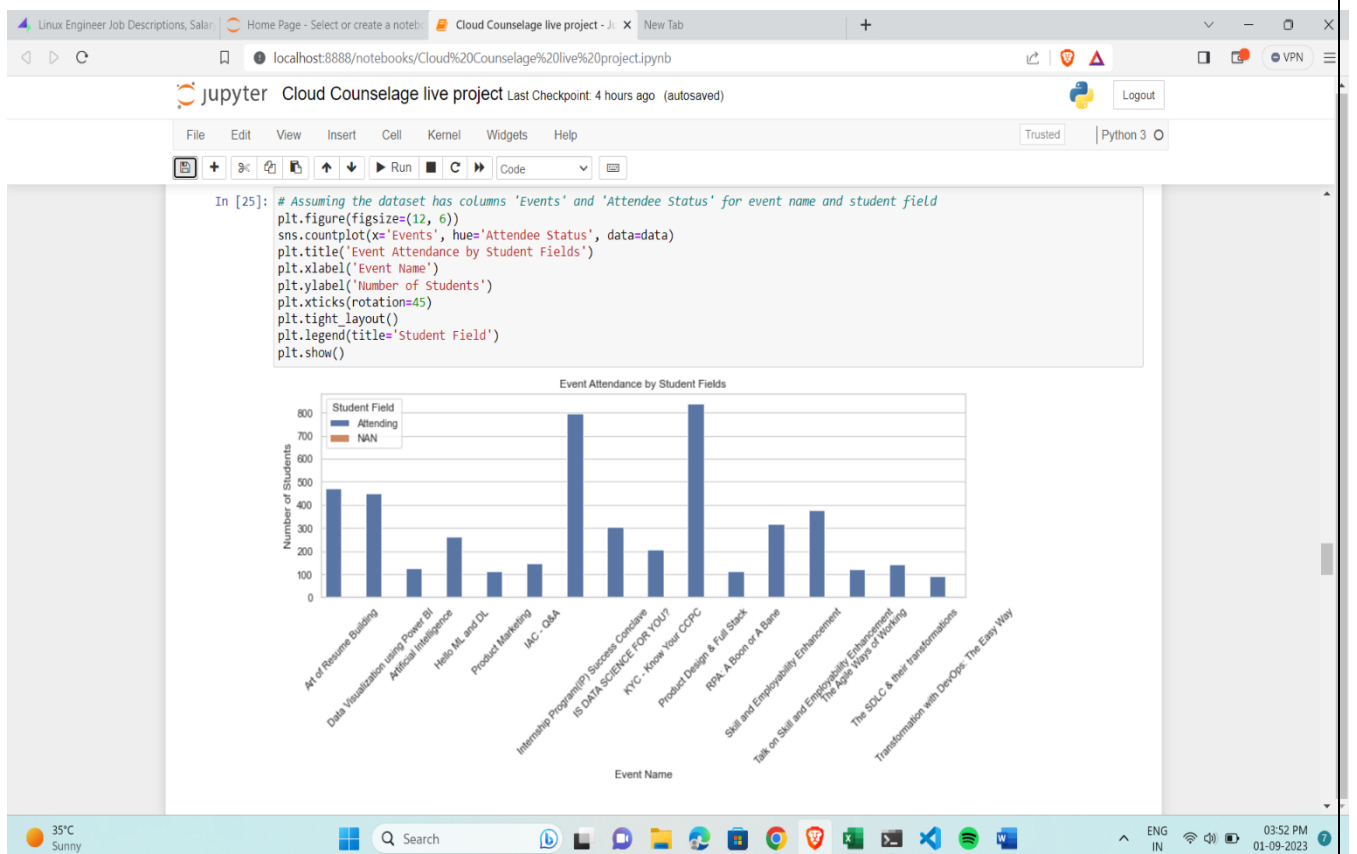
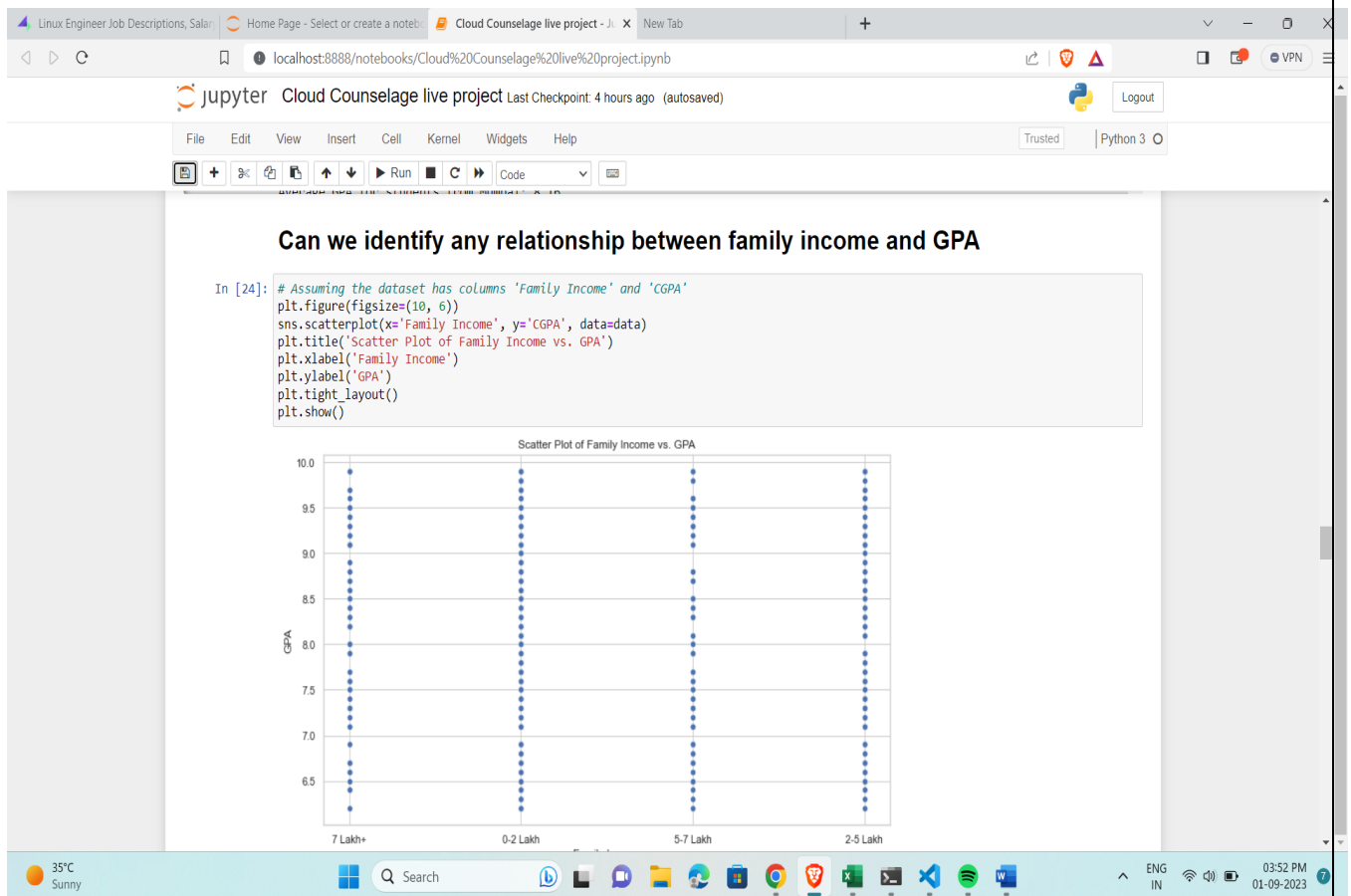
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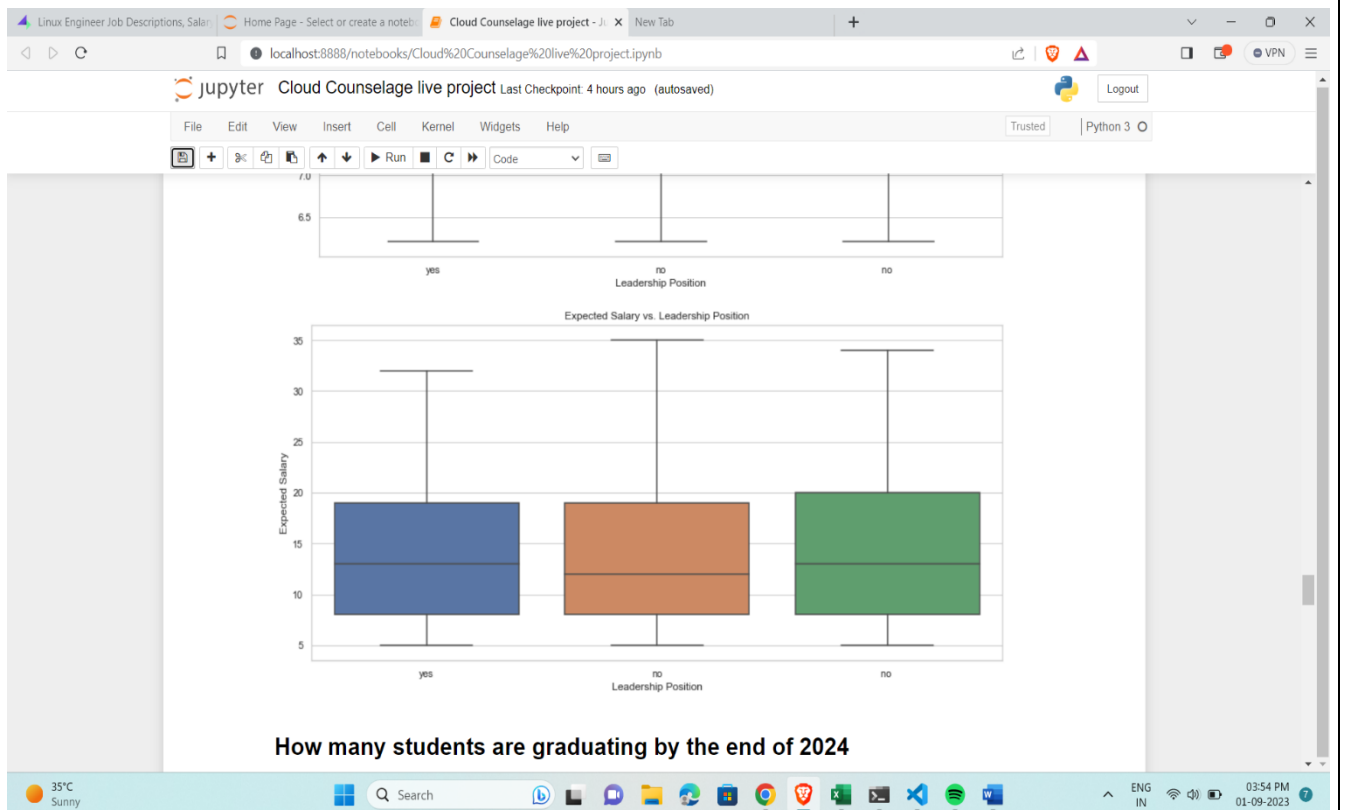
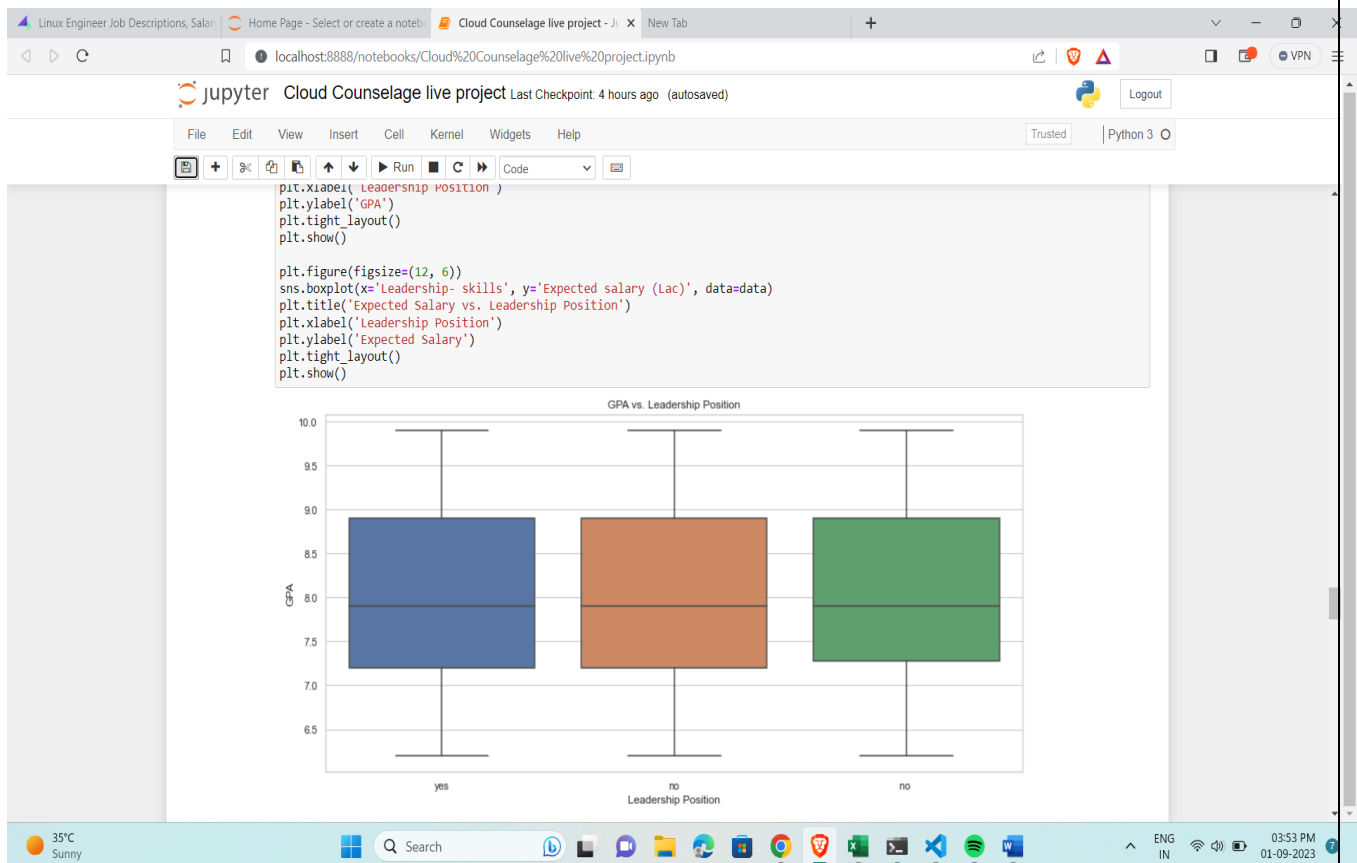












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yes no no Leadership Position

### How many students are graduating by the end of 2024

```
In [27]: # Assuming the dataset has a column named 'Year of Graduation' for graduation years
graduating_by_2024 = data[data['Year of Graduation'] <= 2024]
num_graduating = len(graduating_by_2024)

print(f"Number of students graduating by the end of 2024: {num_graduating}")
```

Number of students graduating by the end of 2024: 3047

### How many students know about the event from their colleges (Which of these Top 5 colleges)

```
In [28]: # Assuming 'College' is the column containing college names and 'Knows About Event' is the column indicating if they know about t
# You might need to adjust column names based on your data
top_5_colleges = data['College Name'].value_counts().head(5)

print("Top 5 Colleges and the Number of Students who Know About the Event:")
print(top_5_colleges)
```

Top 5 Colleges and the Number of Students who Know About the Event:

priyadarshini college of engineering, nagpur	261
vidyalankar institute of technology, mumbai	258
ld college of engineering, ahmedabad, gujarat	248
government polytechnic gandhinagar	206
b. k. birla college of arts, science & commerce (autonomous), kalyan	206

Name: College Name, dtype: int64

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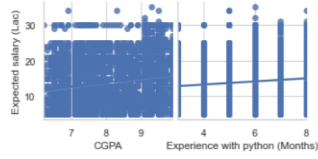
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### income', 'Experience with Python(Months)'

```
In [35]: # Create a pairplot to visualize relationships among variables
sns.pairplot(data, x_vars=['CGPA', 'Experience with python (Months)'], y_vars=['Expected salary (Lac)', kind='reg'])
plt.show()
```



Expected salary (Lac)

CGPA Experience with python (Months)

### Find the total number of students who attended the events related to data science (From all data science related courses)

```
In [38]: # Assuming 'Events' is the column containing course names and 'Attendee Status' is the column indicating if they attended the eve
data_science_courses = ['Data Visualization using Power BI', 'IS DATA SCIENCE FOR YOU?', 'Hello ML and DL']

data_science_attendance = data[data['Events'].isin(data_science_courses) & (data['Attendee Status'] == 'Yes')]

total_attendance = len(data_science_attendance)

print(f"The total number of students who attended events related to Data Science is {total_attendance}.")
```

The total number of students who attended events related to Data Science is 0.

These who have CGPA and More experience in language those who had high

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In [39]:

```
#, 'Experience with python (Months)', and 'Expected salary (Lac)' are the relevant columns
data[(data['CGPA'] >= 9.0) & (data['Experience with python (Months)' > 6])]

ctations = filtered_data[filtered_data['Expected salary (Lac)'] > filtered_data['Expected salary (Lac)'].mean()]

er of students with high CGPA and more experience in language, and high salary expectations is: {len(high_salary_expectations)}"]

The number of students with high CGPA and more experience in language, and high salary expectations is: 173
```

### Which promotion channel is brings in more student participations for the event

In [40]:

```
# Assuming 'How did you come to know about this event?' and 'Attendee Status' are the relevant columns
channel_attendance = data.groupby('How did you come to know about this event?')['Quantity'].sum()

# Find the promotion channel with the highest attendance
most_successful_channel = channel_attendance.idxmax()
max_attendance = channel_attendance.max()

print(f"The most successful promotion channel is '{most_successful_channel}' with a total attendance of {max_attendance} students")

# Plotting the attendance by promotion channel
plt.figure(figsize=(30,12))
channel_attendance.sort_values(ascending=False).plot(kind='bar')
plt.xlabel('How did you come to know about this event?')
plt.ylabel('Total Attendance')
plt.title('Attendance by Promotion Channel')
plt.xticks(rotation=90)
plt.tight_layout()
plt.show()

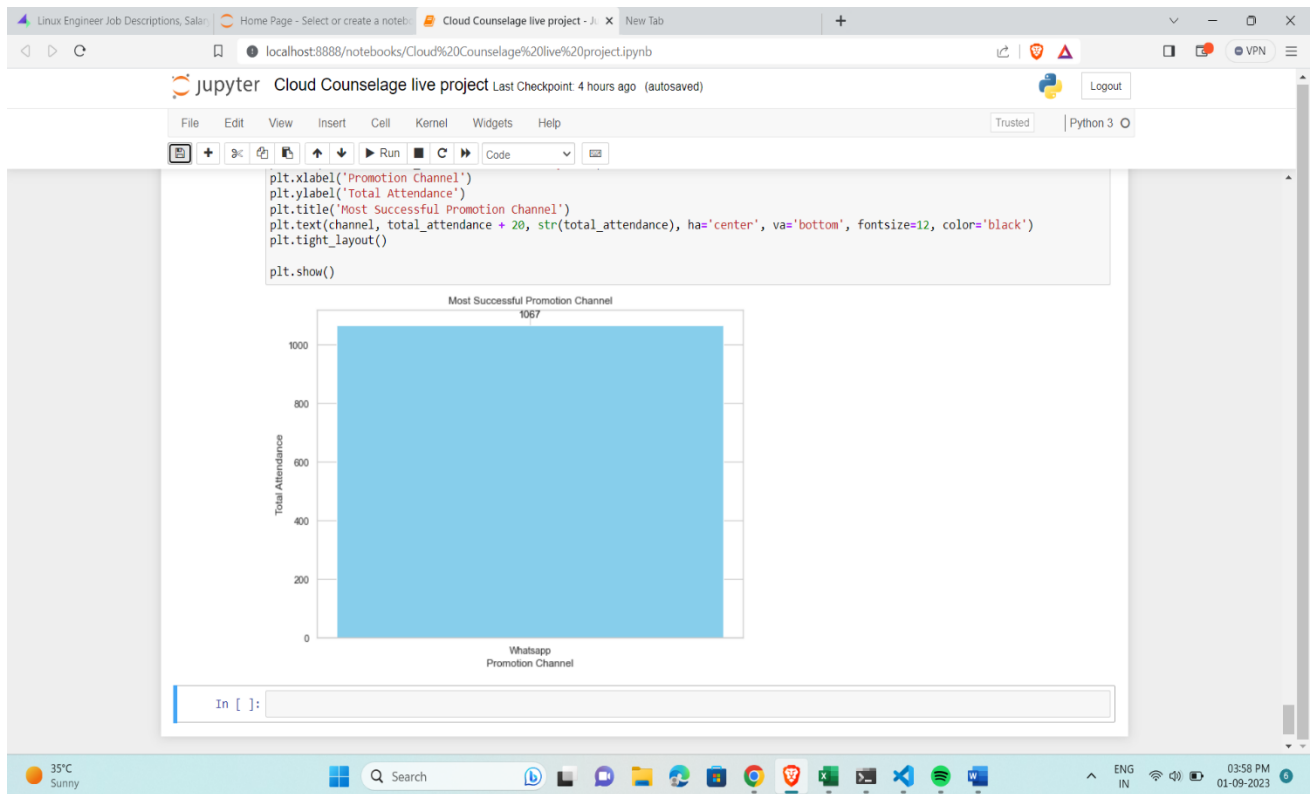
The most successful promotion channel is 'Whatsapp' with a total attendance of 1067 students.
```

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## CONCLUSION

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In conclusion, this project provides valuable insights into the complex relationship between academic performance, event participation, career aspirations, and factors influencing the success of student interns. These findings can guide educational institutions and employers in enhancing the intern experience and promoting success among student interns.

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## RECOMMENDATIONS

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Based on our findings, we recommend the following:

1. Encourage students to actively participate in extracurricular events and workshops to enhance their academic performance and career prospects.
  2. Develop mentorship and support programs to assist student interns in achieving their career goals.
  3. Foster the development of personal attributes such as resilience and adaptability through targeted training and workshops.
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## FUTURE WORK

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Future research can expand upon this project by including a larger and more diverse dataset, conducting longitudinal studies to track student intern success over time, and exploring the impact of various internship programs on career outcomes.

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## REFERENCES

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1. Internship Website: - <https://www.industryacademiacommunity.com/courses/Internships>
2. Pre-Internship Talk: - <https://www.industryacademiacommunity.com/sessions/IAC-Pre-Internship-Talk-64902047aeda092a26b204b2>
3. Please refer the following Project Management sessions in case you are facing any issue in delivering the projects:

4. Project Initiation: <https://cloudcounselage.graphy.com/sessions/Project-Initiation-64af88a3b308530823e2c19e>
  5. Project Planning: <https://cloudcounselage.graphy.com/sessions/Project-Planning-64af88dcb308530823e2c19f>
  6. Project Execution: <https://cloudcounselage.graphy.com/sessions/Project-Execution--Monitoring-64b156a8b308530823e2c2fa>
  7. FAQs for Chatbot: <https://www.industryacademiacommunity.com/faqs>
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# THANK YOU

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