

GRADE ANALYSIS OF BS-AI-F-23-A



Prepared By:

Malik Saad Ahmed

30/06/2024

This report has been developed for the analysis of students' academic positions purely for educational purposes. It is not meant to hurt or defame someone.
Detailed commentary is conducted at the end of this report.

GRADE REPORT OF BS-AI-F-23-A

PURPOSE

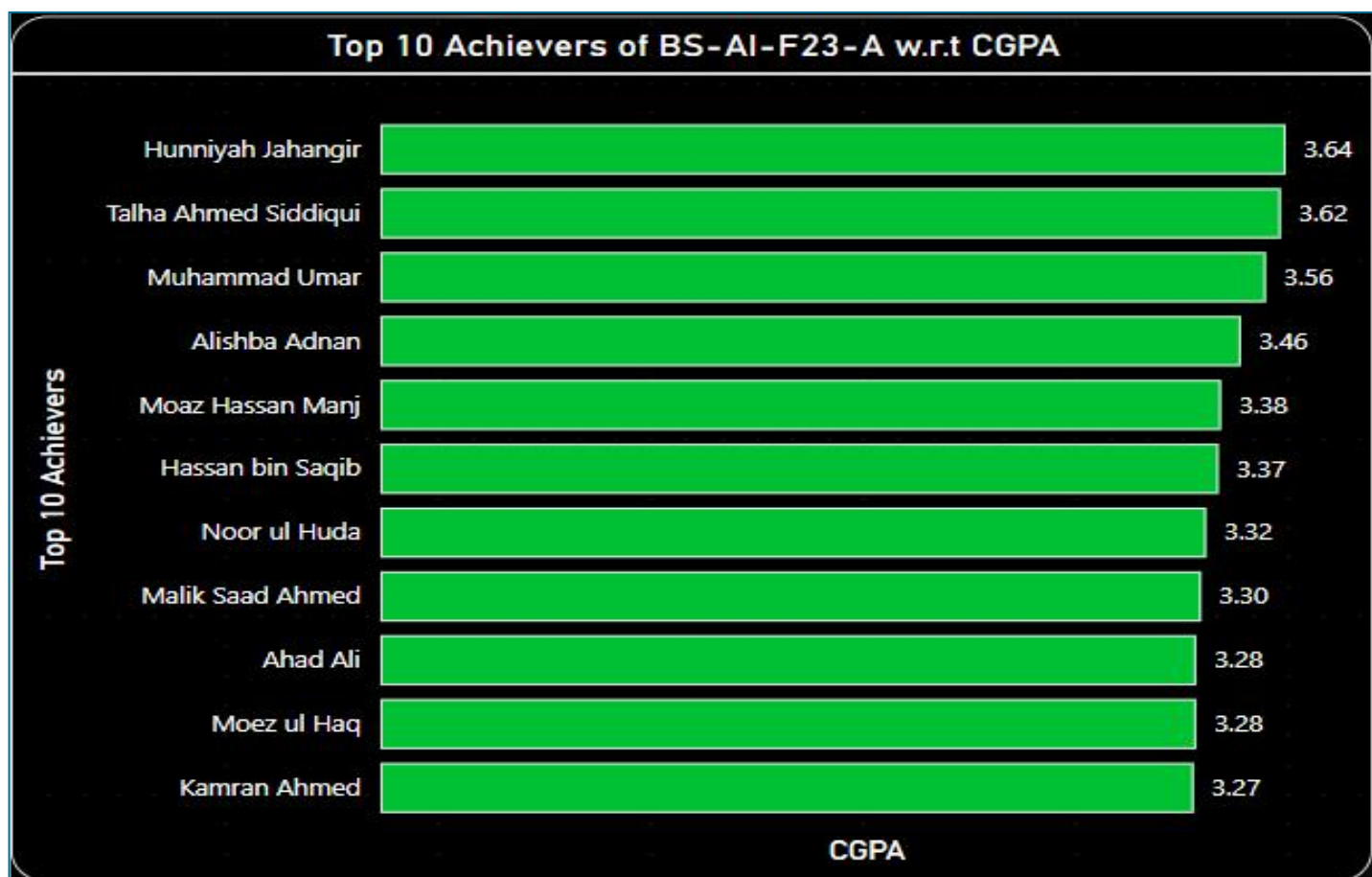
The purpose of this report is to explore the grade reports of each student of BS-AI-F-23-A in order to

- Visualize trends, recognize patterns and future guidance for students.
- Analyze SGPA of first, second semester and CGPA.
- Observe performance of male and female students.
- Analyze performance of students of different Intermediate backgrounds.
- Observe performance of every social group of students.
- Observe GPAs of top 10 Achievers of the class of each category.

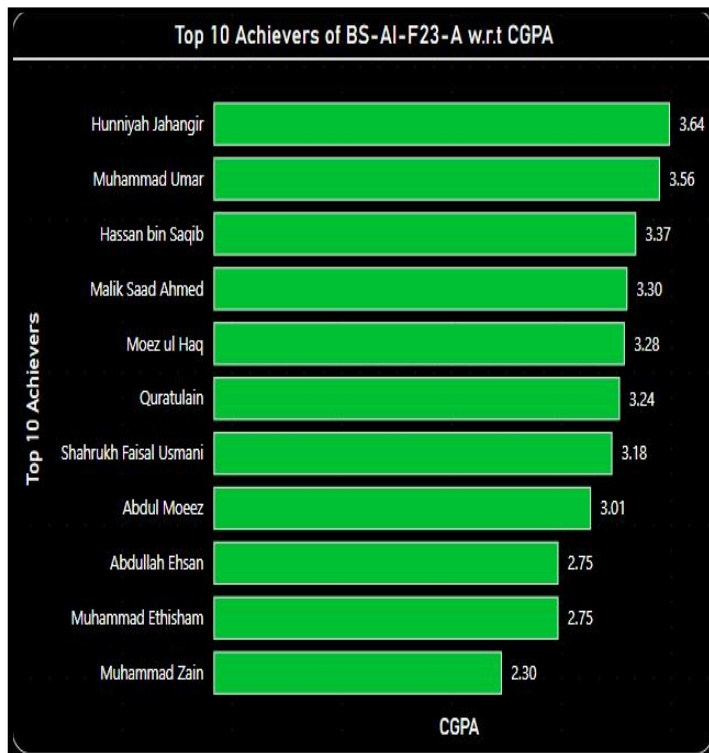
This report follows a top down approach.

TOP 10 ACHIEVERS OF THE SECTION W.R.T CGPA

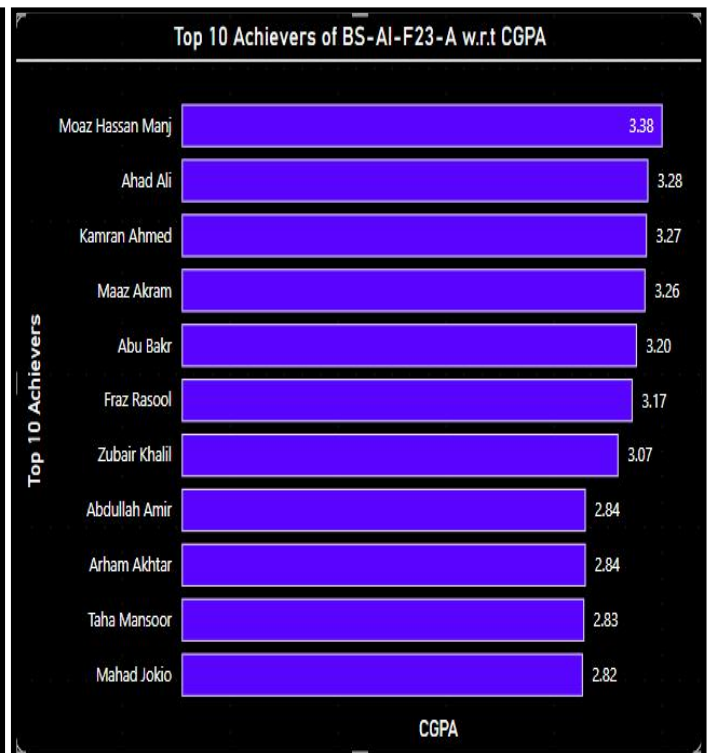
The top 10 high Achievers w.r.t CGPA are shown in the graph below with CGPA at the end of the bars.



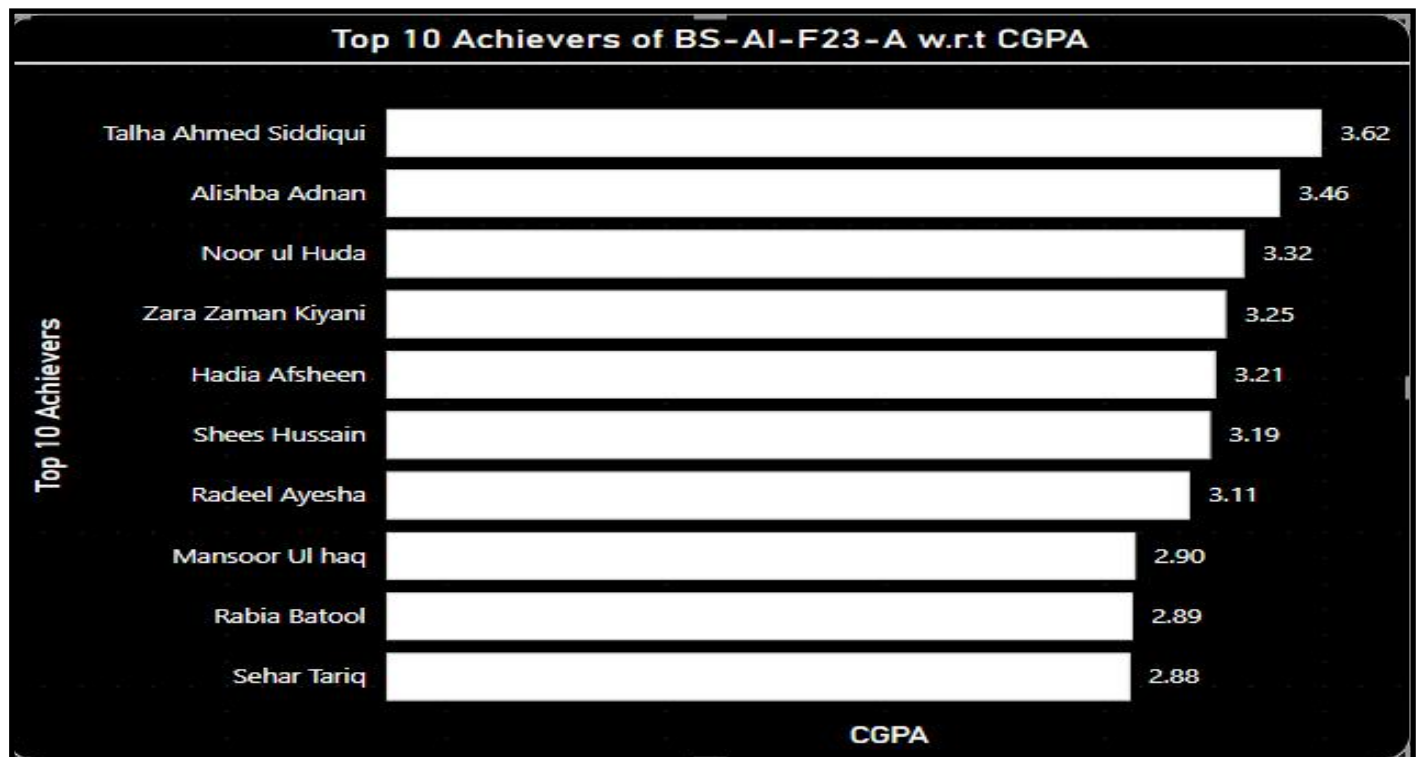
Analysis of Students of Different Backgrounds



ICS Students



FSC Pre-Engg Students



Pre-Medical Students

The x-axis of each bar graph represent GPA

Summary Statistics of CGPA

Avg GPA	Min GPA	Max GPA	Students Below 3 GPA	Students Above 3 GPA	Total Students
2.89	1.82	3.64	28	22	50

Note: You may or may not observe a slight difference in CGPAs ranging from 0.02-0.04 CGPA. These CGPAs have been calculated by the following formula

- Multiplying your each semester SGPA with the credit hours of that semester.
- Adding the two cumulative grade points and dividing the whole by the sum of total credit hours of both semesters.
- Lastly, rounding off the total CGPA up to 2 decimal numbers.

CGPA Based on Gender

Female Students:

Avg GPA	Min GPA	Max GPA	Students Below 3 GPA	Students Above 3 GPA	Total Students
2.95	2.02	3.64	7	7	14

Top 10 Achievers of BS-AI-F23-A w.r.t CGPA



The x-axis of each bar graph represent GPA

Male Students:



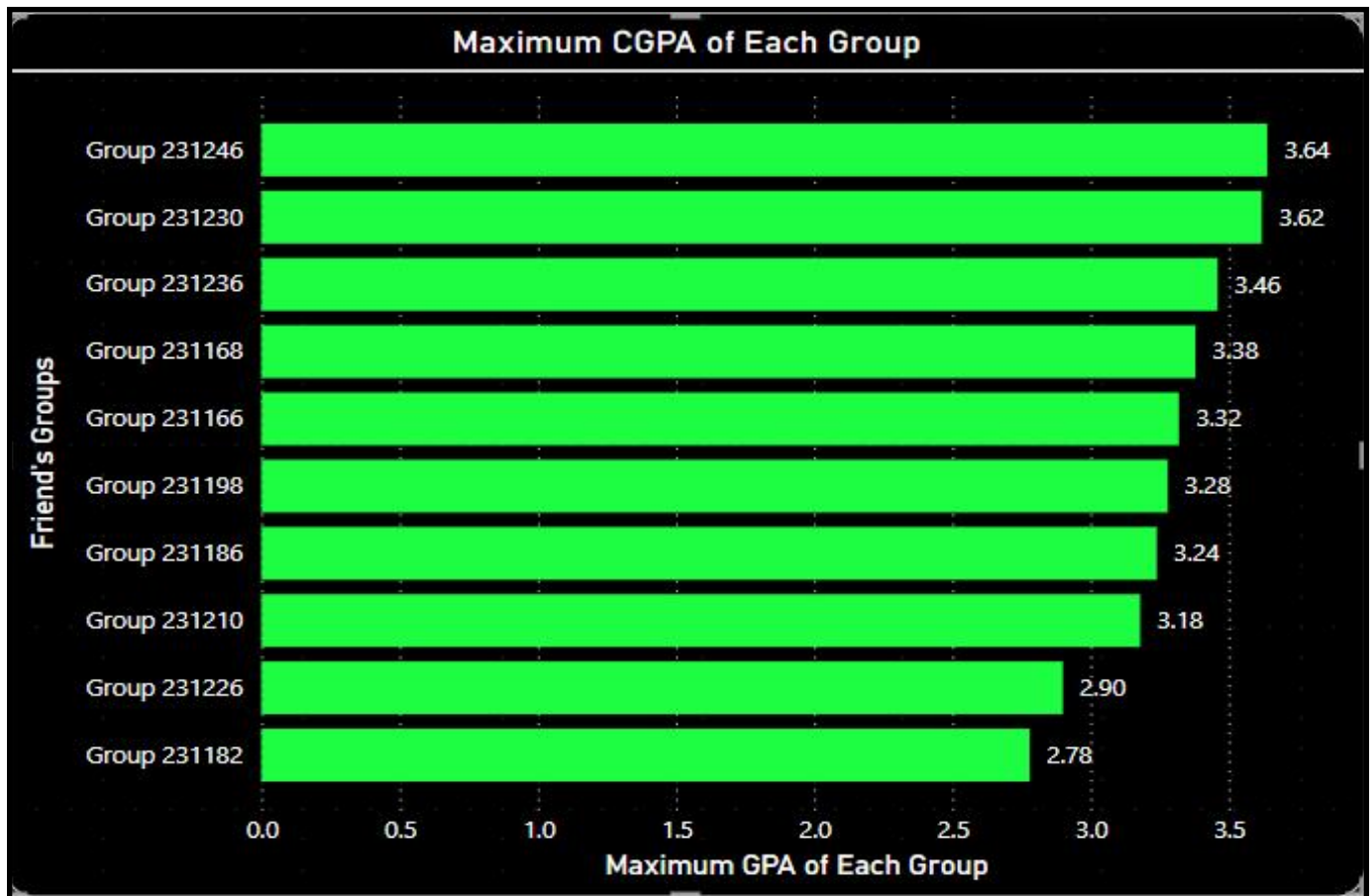
CGPA Based on Friends' Groups

9 friends' groups have been identified based upon their daily hang outs
And association based on behaviors observed during the two semesters
i.e

- Group **231230**
- Group **231246**
- Group **231186**
- Group **231198**
- Group **231166**
- Group **231166**
- Group **231182**
- Group **231210**
- Group **231226**
- Group **231236**

The x-axis of each bar graph represent GPA

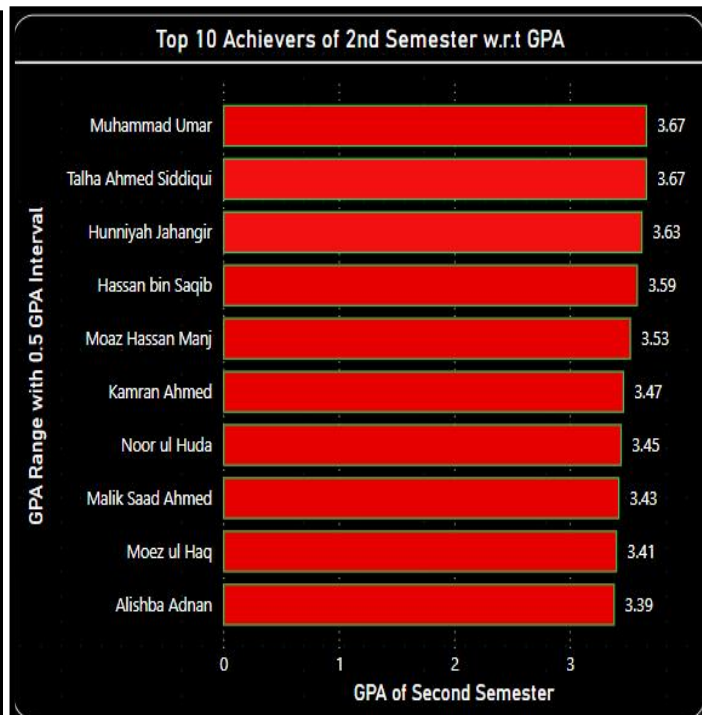
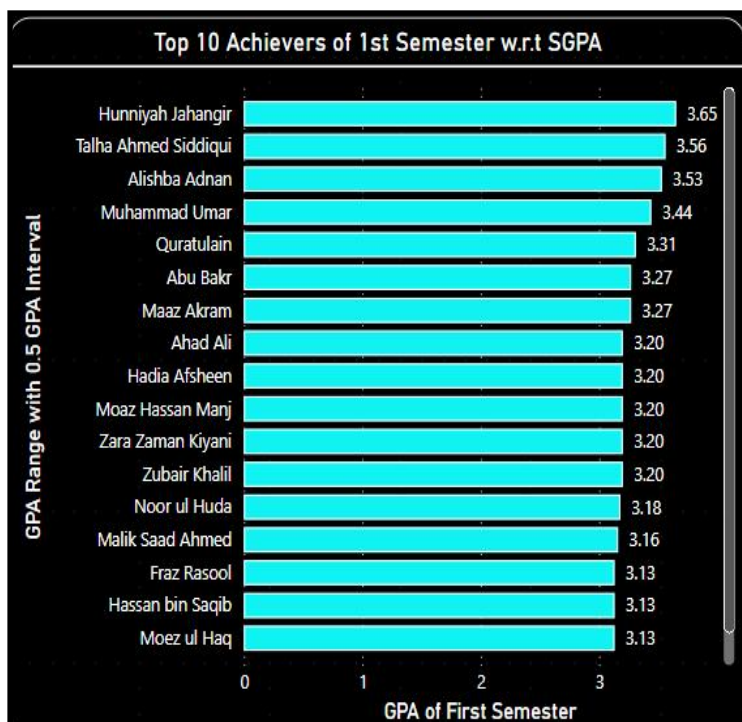
The groups have been ranked w.r.t to the student who scored the highest CGPA i.e. Group **231246** at the top.
But 5 students who are in the Top 10 Achievers list belong to Group **231230** as shown above. The highest CGPA of each group has been represented at x-axis.



TOP 10 ACHIEVERS OF THE SECTION W.R.T SGPA OF FIRST AND SECOND SEMESTER

The top 10 high Achievers w.r.t SGPA of first and second semester are cross compared that are shown in the graphs below with SGPA at the end of the bars.

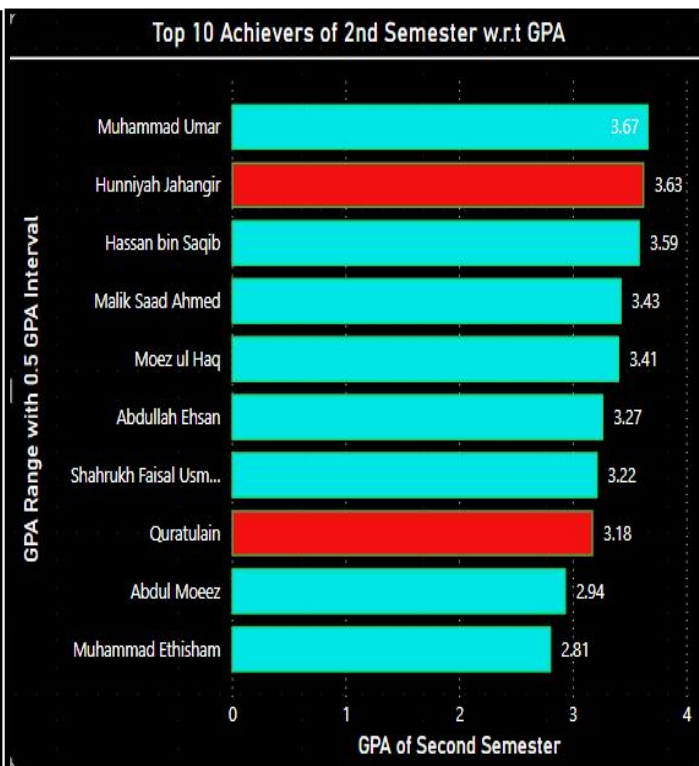
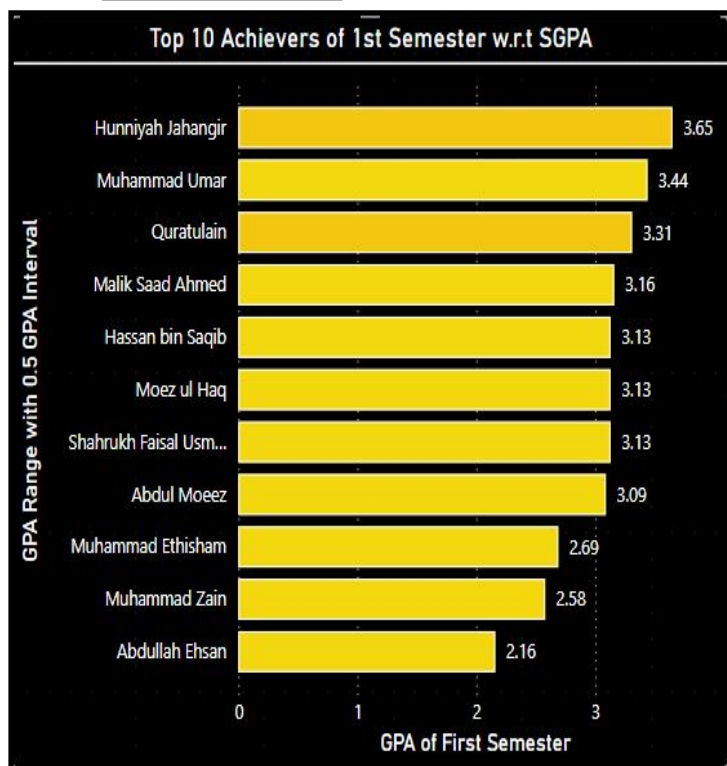
The x-axis of each bar graph represent GPA



- In first Semester, 18 students made up the top 10 SGPA list as some students had same SGPA.
- In second semester, only 10 students made up the top 10 SGPA list.

Analysis of Students of Different Backgrounds

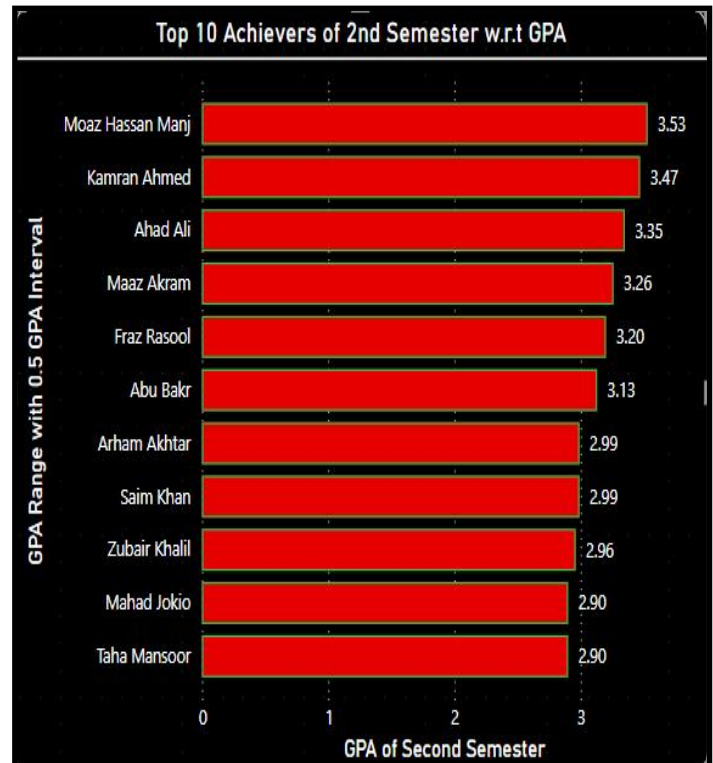
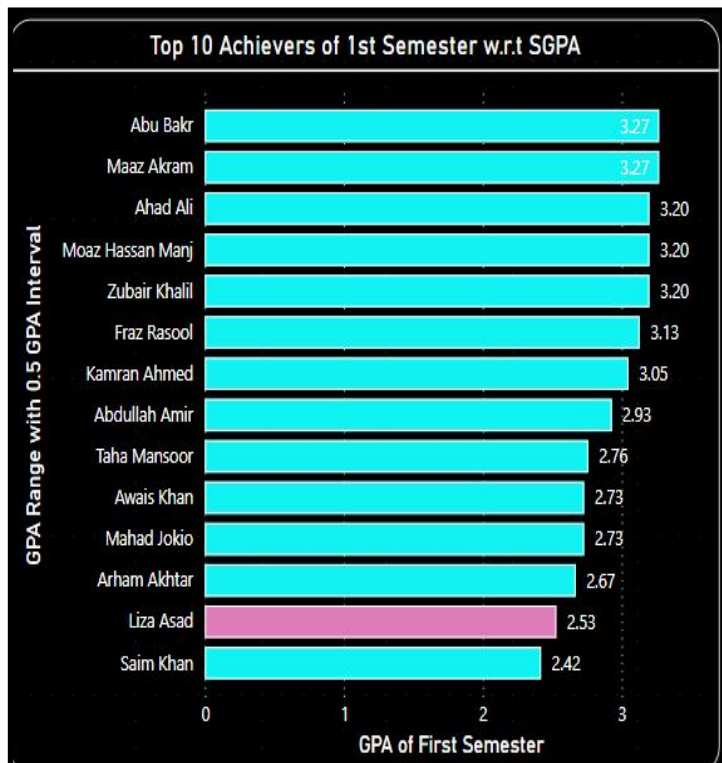
ICS Students



The x-axis of each bar graph represent GPA

- The top 4 ICS high achievers in first semester were Hunniyah Jahangir followed by Muhammad Umar, Quratulain and Malik Saad Ahmed
- The top 4 ICS high achievers in second semester were Muhammad Umar followed by Hunniyah Jahangir, Hassan Bin Saqib and Malik Saad Ahmed

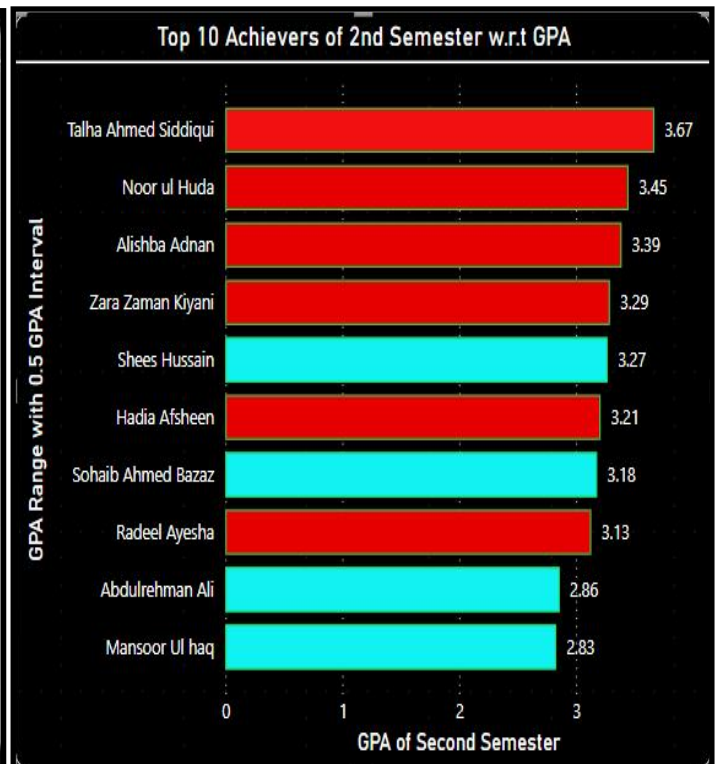
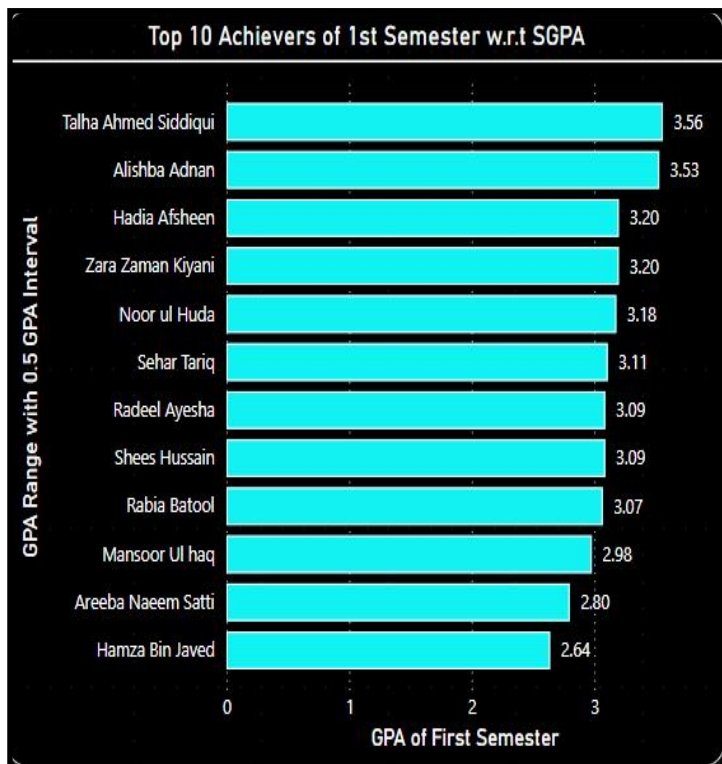
FSc Pre-engg Students



- The top 4 high achievers of Pre-engg students are Abu Bakr and Maaz Akram sharing the first spot followed by Ahad Ali, Moaz Hassan, Zubair Khalil sharing the second spot, then Fraz Rasool and Hassan Bin Saqib sharing the third spot, then Kamran Ahmed in first semester
- The top 4 high achievers of Pre-engg students are Moaz Hassan, Kamran Ahmed, Ahad Ali and Maaz Akram in second semester

The x-axis of each bar graph represent GPA

FSC Pre-med Students



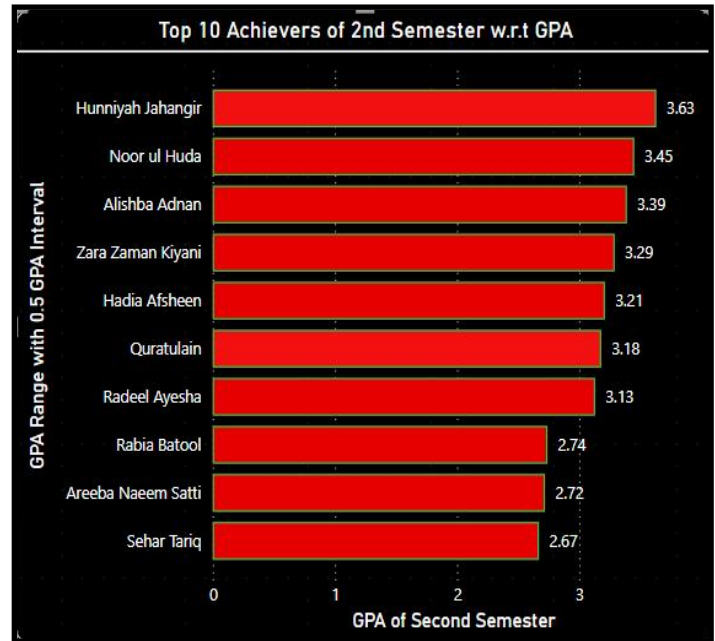
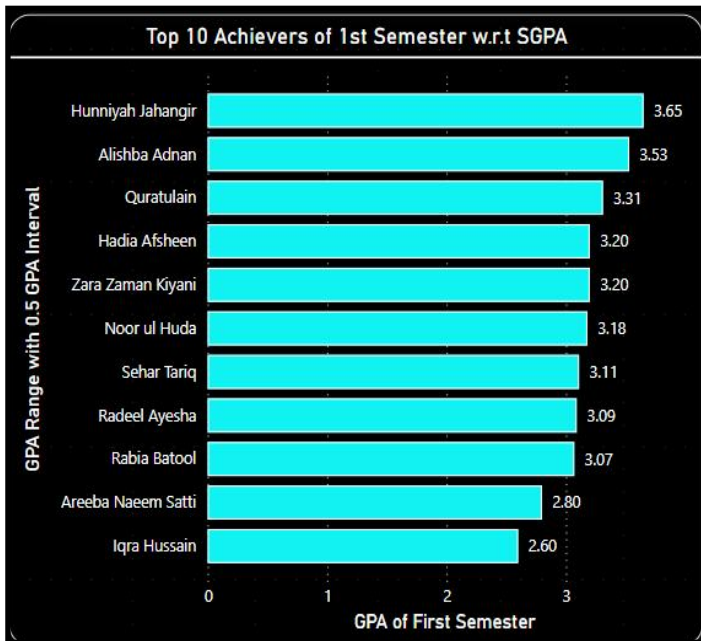
- The top 4 high achievers of first semesters students of pre-med background are Talha Ahmed Siddiqui followed by Alishba Adnan, Hadia afsheen and Zara Zaman Kiyani sharing the third spot, followed by Noor ul Huda
- The top 4 high achievers of first semesters students of pre-med background are Talha Ahmed Siddiqui followed by Noor ul Huda, Alishba Adnan and lastly Zara Zaman Kiyani

SGPA Based on Gender

Females:

- The top 4 high achievers of first semester female students include Hunniyah Jahangir followed by Alishba Adnan, Quratulain and lastly Zara Zaman Kiyani
- The top 4 high achievers of first semester females students include Hunniyah Jahangir followed by Noor ul Huda, Alishba Adnan and lastly Zara Zaman Kiyani

The x-axis of each bar graph represent GPA



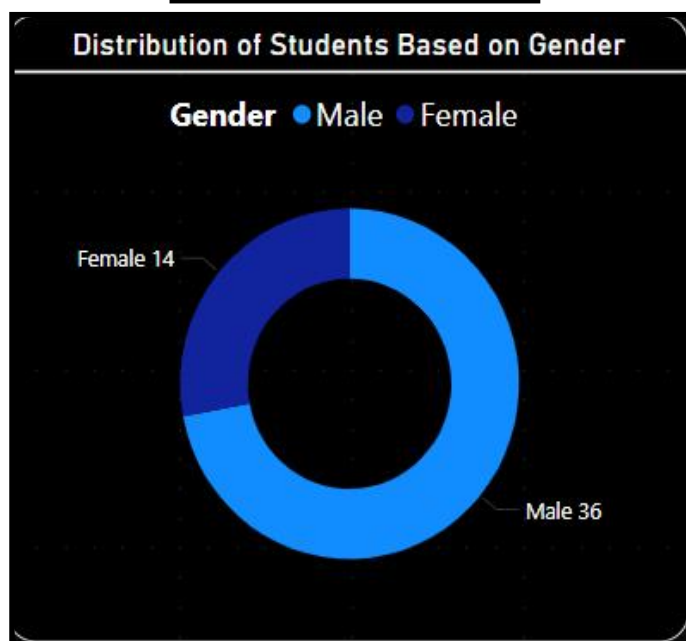
Note: As some groups were reorganized in second semester and due to lack of data from the first semester, group statistics of each group has not been compared

Summary Statistics of Second Semester SGPA

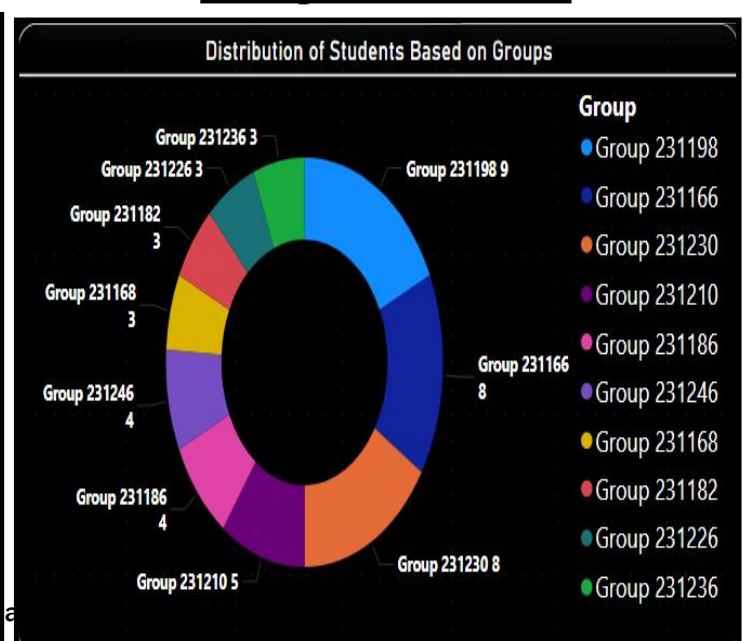
Avg GPA	Min GPA	Max GPA	Students Below 3 GPA	Students Above 3 GPA	Total Students
2.93	1.82	3.67	28	22	50

Distributions Of Students w.r.t Groups, Gender , Background, Grades

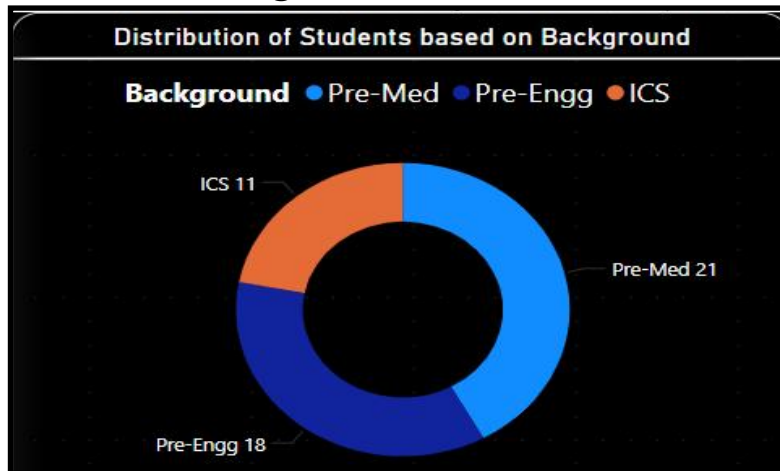
Gender Distribution



Groups Distribution

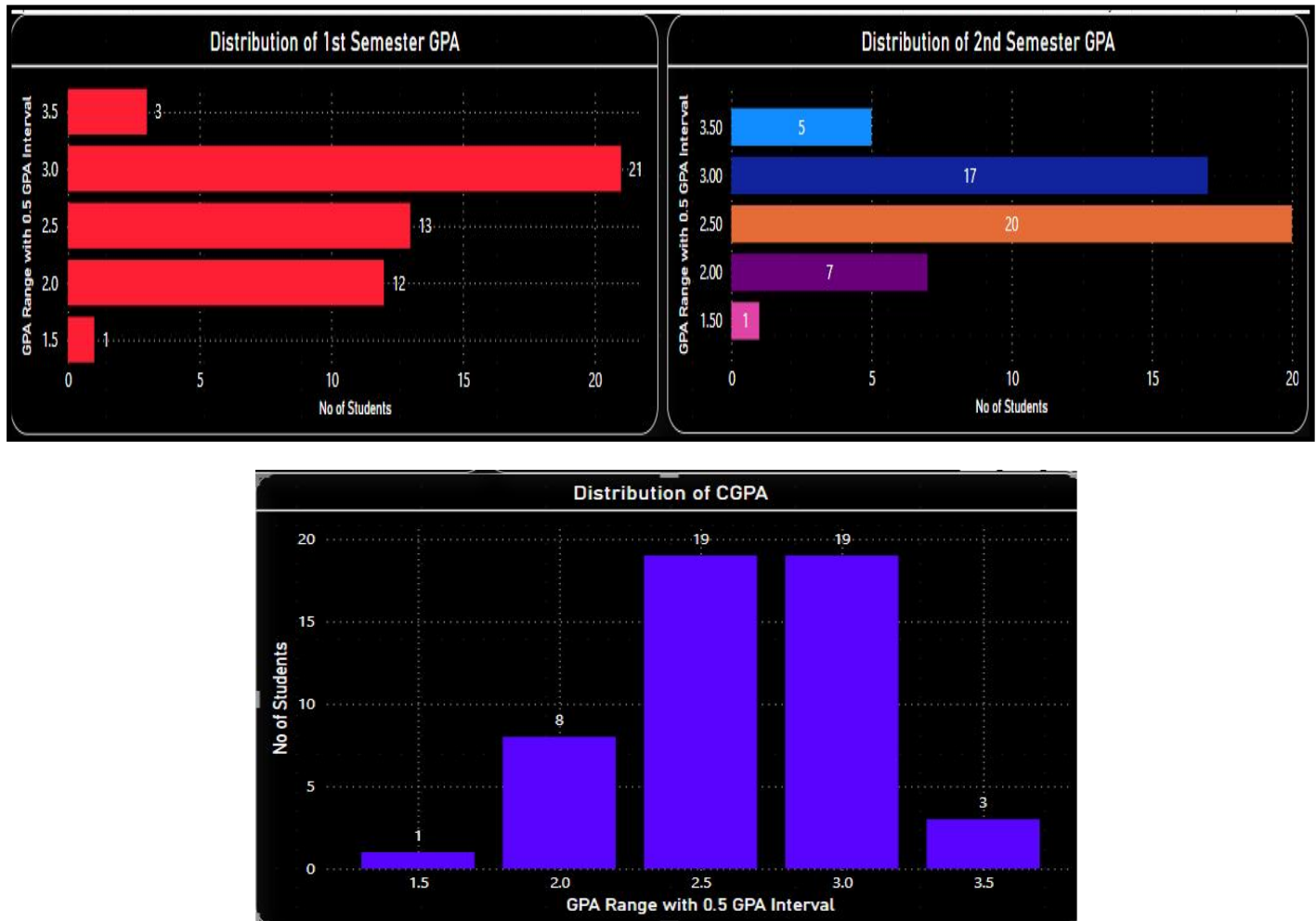


Background Distributions



GRADE ALLOTMENT OF SECOND SEMESTER





Note: The columns labeled as blanks represents that a number of students did not register a course or were not allotted the respective course.

CONCLUSION

- Successful exploratory data analysis of BS-AI-F-23-II-A was conducted.
- All the data was scraped from the main results portal by using student IDs
- Data was collected, cleaned rigorously, graphs were plotted and insights were shared
- The data of top 10 students of every domain was successfully plotted and main insights were delivered.

The x-axis of each bar graph represent GPA

The x-axis of each bar graph represent GPA