**Data Analysis - IP – 3022**

**Problem Statement:**

Absence of Insights for the Relationship between student's Economic Background, academic performance, Competence and Expected Salary.

**Question and Answers:**

**1) how many unique students are included in the dataset:**

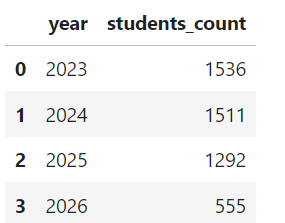
We can either check by *data[data['First Name'].duplicated()]* or *data[data['First Name'].unique()]*

And the answer is 2324

**2) what is the average CGPA of the students:**

We can check that by *data['CGPA'].mean()* and the answer is 8.038475684511647

**3)** **Distribution of students across each year:**

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This is the Distribution of students across each year seems like the year 2023 has a lot of students

It can be also represented in a bar chart

A graph of a number of blue bars

Description automatically generated with medium confidence

**4)** **what is the distribution of student’s python experience:**

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Description automatically generated**

This is the Distribution of Python experience across students seems like there are 1242 students with python experience of 5 months

Which can be also represented by

A pie chart with different colors

Description automatically generated

**5)** **what is the average Family income of the students:**

Since the Family income attribute is in categorical ,we have to take the maximum assumptions and compute the mean across

A screenshot of a computer

Description automatically generated

This gives us the average was around 2.3134450347364117 and it might fall under the category of 2-5l

**6)** **How does the gpa vary among different colleges:**

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And the list goes

**7)** **The average CGPA of the students from each city:**

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**8)** **Can we identify any relationship between family income and cgpa:**

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There is not much of a Relationship between Family Income and CGPA but students comes from the background of 7+lkh as family income has an average CGPA of 8.149438