Datasets Considered

Amazon E-commerce Products & Reviews Dataset

+ Dataset was extensive

- Had too many columns that were completley null or majority null.

- Most columns were categorical data

- Several Colums only had unique values

Mental Health of Students Dataset

+ Dataset was already cleaned, prepared.

+ Covered data that I found intresting.

- Dataset was too small to make significant analysis.

Student Performance Factors Dataset

+ Minimal missing values.

+ Covered data that I found intresting.

Brainstorming

Ideas

- **I could explore the privelleges certain students have and if ther's a correlation between that and academic performance/attendace. Relevant colums;**
  - Internet_Access,
  - Tutoring_Sessions,
  - Family_Income,
  - Distance_from_Home,
  - Previous_Scores,
  - Exam_Score.

- **I could explore the academic stereotypes of male and female students. Relevant colums;**
  - Gender,
  - Peer_Influence,
  - Parental_Involvement,
  - Previous_Scores,
  - Exam_Score.

- **I could show if more effort directly translates to better grades. Relevant colums;**
  - Hours_Studied,
  - Attendance,
  - Tutoring_Sessions,
  - Previous_Scores,
  - Exam_Score.

Possible Types of Analysis

- Descriptive Statistics: Display basic statistics.

- Impact Analysis: Visualise the impact of different factors on exam scores.

- Correlation Analysis: Visualise correlations between different attributes.