## **Dataset Description**

This dataset captures academic, demographic, and behavioral information from students at two secondary schools. The data was collected via school reports and structured questionnaires and is intended for understanding patterns in student life and academic performance.

Each row represents a unique student. Below is a brief overview of the columns:

### **Demographic Information**

* school: School attended by the student (GP or MS)
* sex: Gender of the student (F for female, M for male)
* address: Type of home address (U for urban, R for rural)
* famsize: Size of the student’s family (LE3 for ≤3 members, GT3 for >3)
* Pstatus: Parental cohabitation status (T for together, A for apart)
* guardian: Primary guardian (mother, father, or other)

### **Parental Background**

* Medu: Mother's level of education (0 to 4)
* Fedu: Father's level of education (0 to 4)
* Mjob: Mother's job (teacher, health, services, at\_home, or other)
* Fjob: Father's job (teacher, health, services, at\_home, or other)

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### **School and Study Related**

* reason: Reason for choosing the school (home, reputation, course, or other)
* traveltime: Travel time from home to school (1: <15 min to 4: >1 hour)
* failures: Number of past class failures (1 to 4)
* schoolsup: Receiving extra educational support (yes or no)
* famsup: Receiving family educational support (yes or no)
* paid: Attending extra paid classes (yes or no)
* activities: Participation in extracurricular activities (yes or no)
* nursery: Attended nursery school (yes or no)
* higher: Aspiration to pursue higher education (yes or no)
* internet: Internet access at home (yes or no)

### **Lifestyle & Behavior**

* famrel: Quality of family relationships (1: very bad to 5: excellent)
* freetime: Free time after school (1: very low to 5: very high)
* goout: Frequency of going out with friends (1 to 5)
* Dalc: Weekday alcohol consumption (1 to 5)
* health: Current health status (1 to 5)
* absences: Number of school absences (0 to 93)

### **Academic Performance**

* G1: Grade in the first term (0 to 20)
* G2: Grade in the second term (0 to 20)
* G3: Final grade for the year (0 to 20)

### **Feature Columns**

* Feature\_1, Feature\_2, Feature\_3: Anonymized columns — their original meanings are intentionally hidden and should be uncovered as part of your task. Use EDA and logic to infer what they might represent.

### **Target Column**

* romantic: Indicates whether the student is in a romantic relationship (yes or no)