**About this file**

**Student ID**

* **StudentID**: A unique identifier assigned to each student (1001 to 3392).

**Demographic Details**

* **Age**: The age of the students ranges from 15 to 18 years.
* **Gender**: Gender of the students, where 0 represents Male and 1 represents Female.
* **Ethnicity**: The ethnicity of the students, coded as follows:
  + 0: Caucasian
  + 1: African American
  + 2: Asian
  + 3: Other
* **ParentalEducation**: The education level of the parents, coded as follows:
  + 0: None
  + 1: High School
  + 2: Some College
  + 3: Bachelor's
  + 4: Higher

**Study Habits**

* **StudyTimeWeekly**: Weekly study time in hours, ranging from 0 to 20.
* **Absences**: Number of absences during the school year, ranging from 0 to 30.
* **Tutoring**: Tutoring status, where 0 indicates No and 1 indicates Yes.

**Parental Involvement**

* **ParentalSupport**: The level of parental support, coded as follows:
  + 0: None
  + 1: Low
  + 2: Moderate
  + 3: High
  + 4: Very High

**Extracurricular Activities**

* **Extracurricular**: Participation in extracurricular activities, where 0 indicates No and 1 indicates Yes.
* **Sports**: Participation in sports, where 0 indicates No and 1 indicates Yes.
* **Music**: Participation in music activities, where 0 indicates No and 1 indicates Yes.
* **Volunteering**: Participation in volunteering, where 0 indicates No and 1 indicates Yes.

**Academic Performance**

* **GPA**: Grade Point Average on a scale from 2.0 to 4.0, influenced by study habits, parental involvement, and extracurricular activities.

**Target Variable: Grade Class**

* **GradeClass**: Classification of students' grades based on GPA:
  + 0: 'A' (GPA >= 3.5)
  + 1: 'B' (3.0 <= GPA < 3.5)
  + 2: 'C' (2.5 <= GPA < 3.0)
  + 3: 'D' (2.0 <= GPA < 2.5)
  + 4: 'F' (GPA < 2.0)

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