**Description of the Variables**

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| **Variable** | **Description** | **Level** | **Role** |
| Gender | The gender of the student. | Categorical | Input |
| ParentEdu | The highest level of education attained by the student's parent. | Categorical | Input |
| ParentMaritalStatus | Marital status of the student's parents. | Categorical | Input |
| ExtraCurricular | Frequency of extra curricular activities | Categorical | Input |
| IsFirstChild | Whether the student is the first child in the family (yes or no). | Categorical | Input |
| Siblings | The number of siblings the student has. | Numerical | Input |
| Transportation | The means of transportation the student uses to go to school (e.g., school bus, private). | Categorical | Input |
| AvgReadingScore | Student's average reading assessment. | Numerical | Input |
| AvgWritingScore | Student's average writing assessment. | Numerical | Input |
| traveltime | Travel time to school in hours. | Numerical | Input |
| studytime | Weekly study time in hours. | Numerical | Input |
| internet | Whether the student has internet access at home (yes or no). | Categorical | Input |
| freetime | Amount of free time after school (1 = very low, 5 = very high). | Numerical | Input |
| absences | Number of school absences. | Numerical | Input |
| CGPA | Cumulative GPA of the student at the time of graduation | Categorical | Target |