### **Now let's understand those columns**

**school - student’s school (binary: ‘GP’ - Gabriel Pereira or ‘MS’ - Mousinho da Silveira)**

* Bar Chart

**sex - student’s sex (binary: ‘F’ - female or ‘M’ - male)**

* Bar Chart

**age - student’s age (numeric: from 15 to 22)**

**address - student’s home address type (binary: ‘U’ - urban or ‘R’ - rural)**

**famsize - family size (binary: ‘LE3’ - less or equal to 3 or ‘GT3’ - greater than 3)**

**Pstatus - parent’s cohabitation status (binary: ‘T’ - living together or ‘A’ - apart)**

**Medu - mother’s education (numeric: 0 - none, 1 - primary education (4th grade), 2 - 5th to 9th grade, 3 - secondary education or 4 - higher education)**

**Fedu - father’s education (numeric: 0 - none, 1 - primary education (4th grade), 2 - 5th to 9th grade, 3 - secondary education or 4 - higher education)**

**Mjob - mother’s job (nominal: ‘teacher’, ‘health’ care related, civil ‘services’ (e.g. administrative or police), ‘at\_home’ or ‘other’)**

**Fjob - father’s job (nominal: ‘teacher’, ‘health’ care related, civil ‘services’ (e.g. administrative or police), ‘at\_home’ or ‘other’)**

**reason - reason to choose this school (nominal: close to ‘home’, school ‘reputation’, ‘course’ preference or ‘other’)**

**guardian - student’s guardian (nominal: ‘mother’, ‘father’ or ‘other’)**

**traveltime - home to school travel time (numeric: 1 - <15 min., 2 - 15 to 30 min., 3 - 30 min. to 1 hour, or 4 - >1 hour)**

**studytime - weekly study time (numeric: 1 - <2 hours, 2 - 2 to 5 hours, 3 - 5 to 10 hours, or 4 - >10 hours)**

**failures - number of past class failures (numeric: n if 1<=n<3, else 4)**

**schoolsup - extra educational support (binary: yes or no)**

**famsup - family educational support (binary: yes or no)**

**paid - extra paid classes within the course subject (Portuguese) (binary: yes or no)**

**activities - extra-curricular activities (binary: yes or no)**

**nursery - attended nursery school (binary: yes or no)**

**higher - wants to take higher education (binary: yes or no)**

**internet - Internet access at home (binary: yes or no)**

**romantic - with a romantic relationship (binary: yes or no)**

**famrel - quality of family relationships (numeric: from 1 - very bad to 5 - excellent)**

**freetime - free time after school (numeric: from 1 - very low to 5 - very high)**

**goout - going out with friends (numeric: from 1 - very low to 5 - very high)**

**Dalc - workday alcohol consumption (numeric: from 1 - very low to 5 - very high)**

**Walc - weekend alcohol consumption (numeric: from 1 - very low to 5 - very high)**

**health - current health status (numeric: from 1 - very bad to 5 - very good)**

**absences - number of school absences (numeric: from 0 to 93)**

**G1 - first period grade (numeric: from 0 to 20)**

**G2 - second period grade (numeric: from 0 to 20)**

**G3 - final grade (numeric: from 0 to 20, output target)**