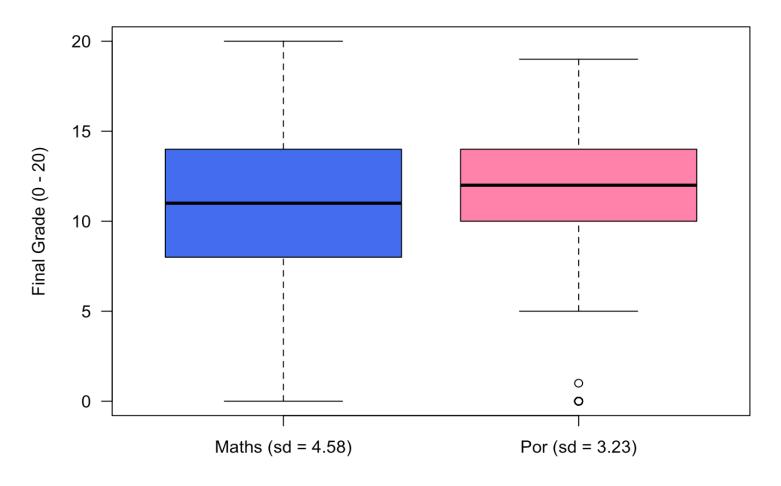
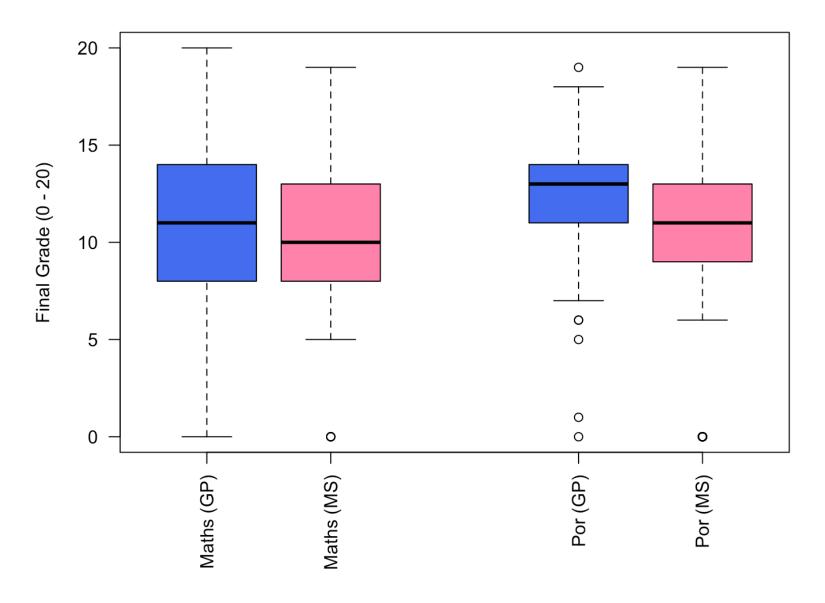
Student Grade Prediction

- We have 32 attributes for each student
 - Home life: Family size, whether they live in an urban or rural location, their parents education level
 - Habits: Daily and weekly alcohol consumption, extra-curricular activities, how often the go out with friends
 - School life: Did they attend pre-school, do they want to pursue higher education, do they receive grinds
- Students have three grades associated with them (first period, second period, final grade)
 - Final grade is independent of the first two grades
 - We aim to predict the final grades of each student
 - We do not want to use the other two grades in our prediction algorithm

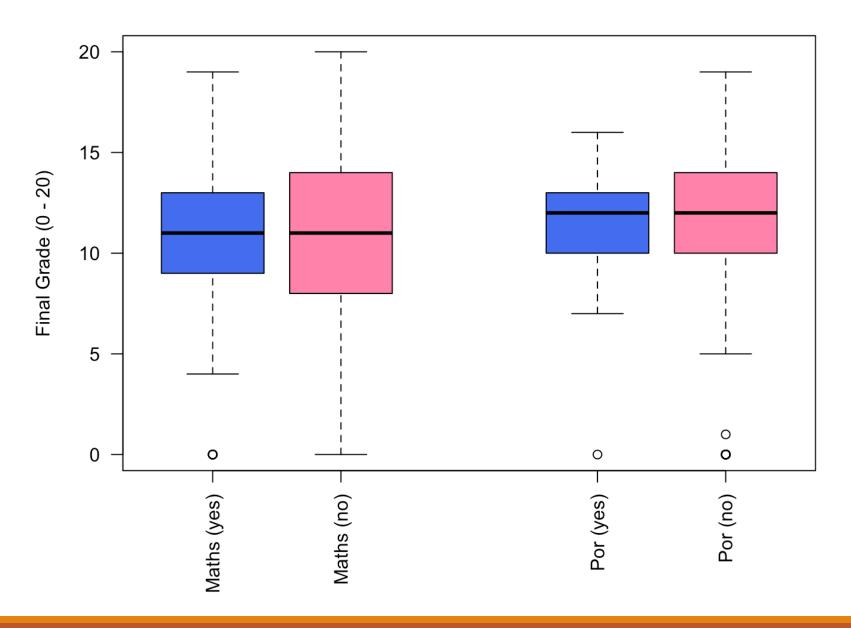
Maths vs Portuguese



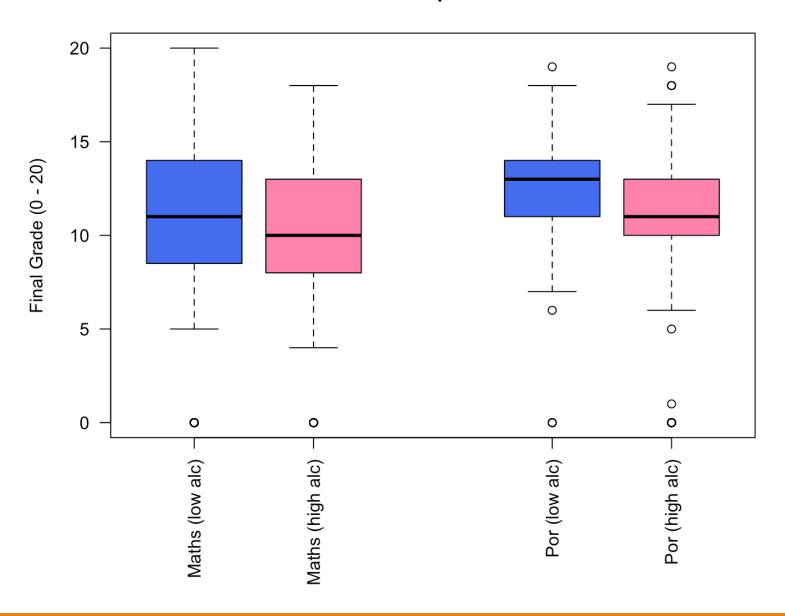
School vs Grades



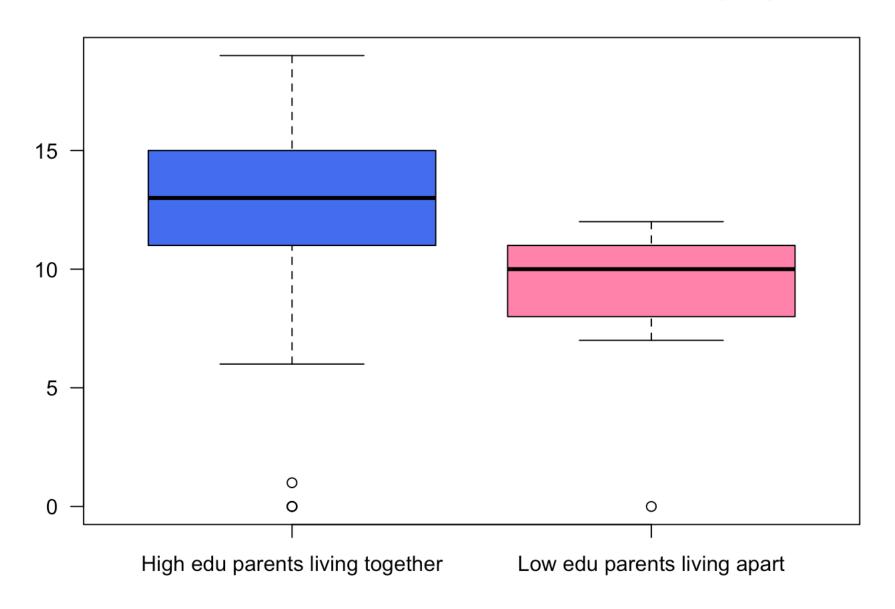
Grinds vs Grades



Alcohol Consumption vs Grades



Parents Relationship & Education vs Grades (Por)



Conclusions

- We are aiming to predict the bracket of grades a student will fall into
 - (0-2), (3-5), (6-8), (9-11), (12-14), (15-17), (18-20)
- It is much easier to predict a student falling into the 4th and 5th brackets as opposed to the 1st and 7th brackets
- Based on our analysis of the dispersion of some of these metrics, we have identified some key attributes which will be central to our prediction algorithm