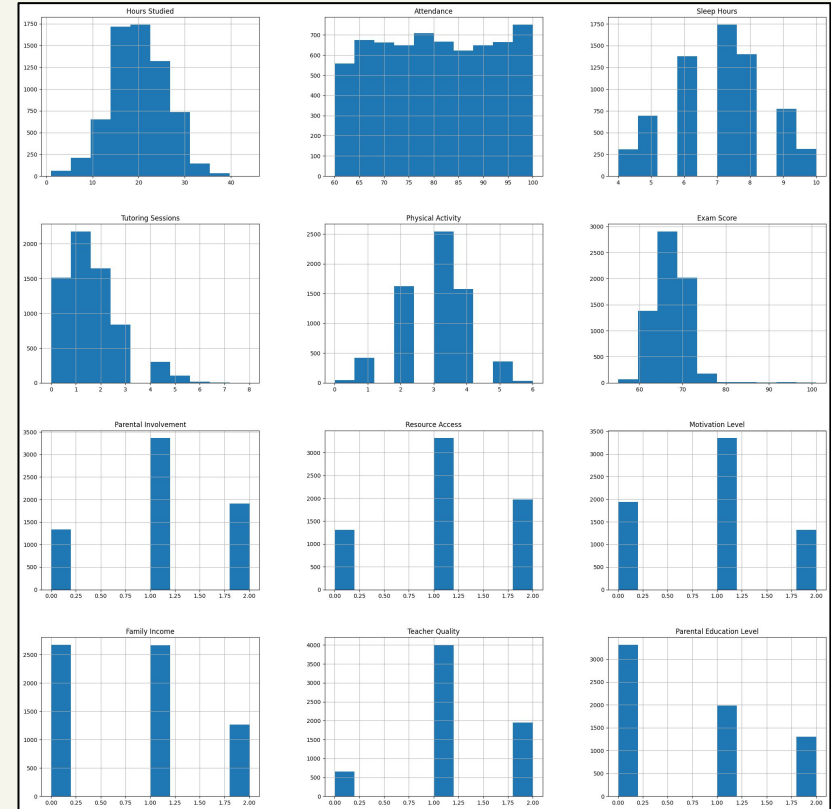


Impact of Socio Economics on academic success



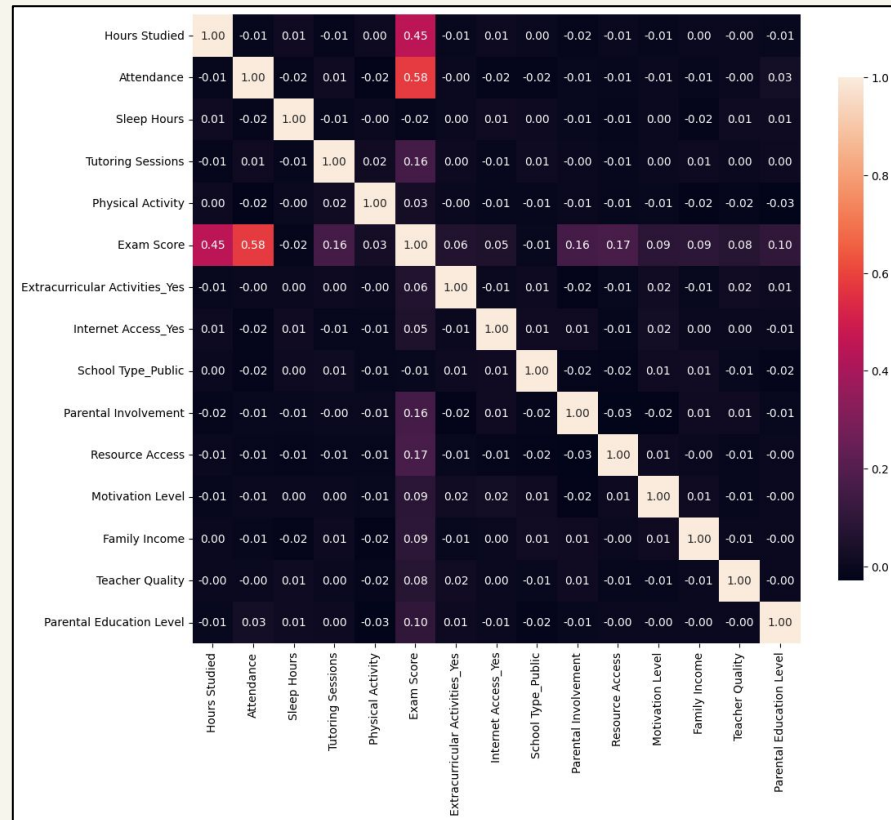
The Data

- Shown to the right is a histogram to visually represent the data. It breaks down each column and shows the count for each value in that column.
- This data is continuous.



Multiple Linear Regression

- In my model I used economic variables in order to predict Exam Scores.
- Had an accuracy score a little under 70%.



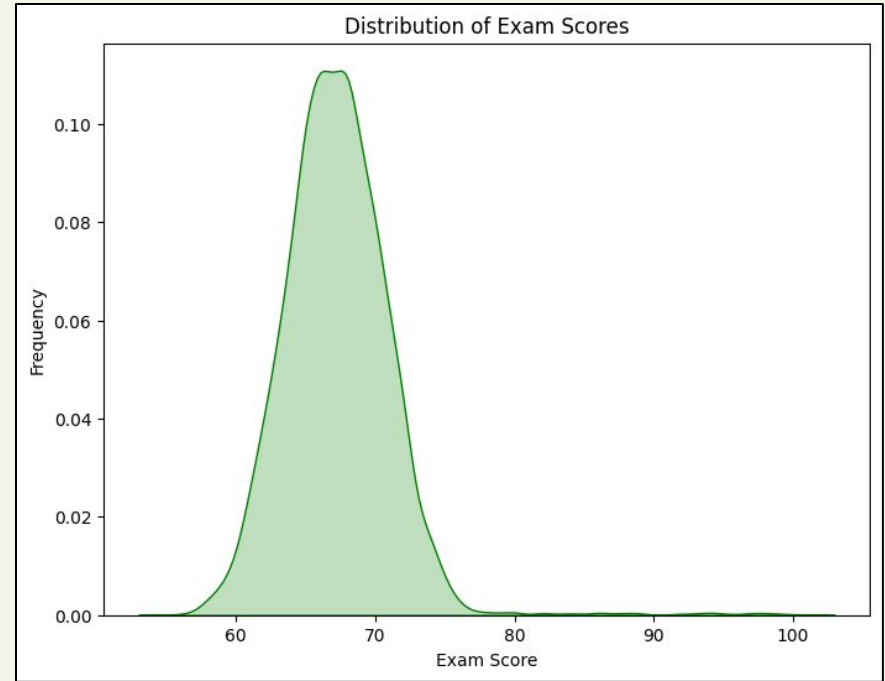
Random Forest Regression

- In this model I used optimization metrics such as changing the number of estimators and using MAE (mean absolute error).
- Also had an accuracy score a little under 70%.



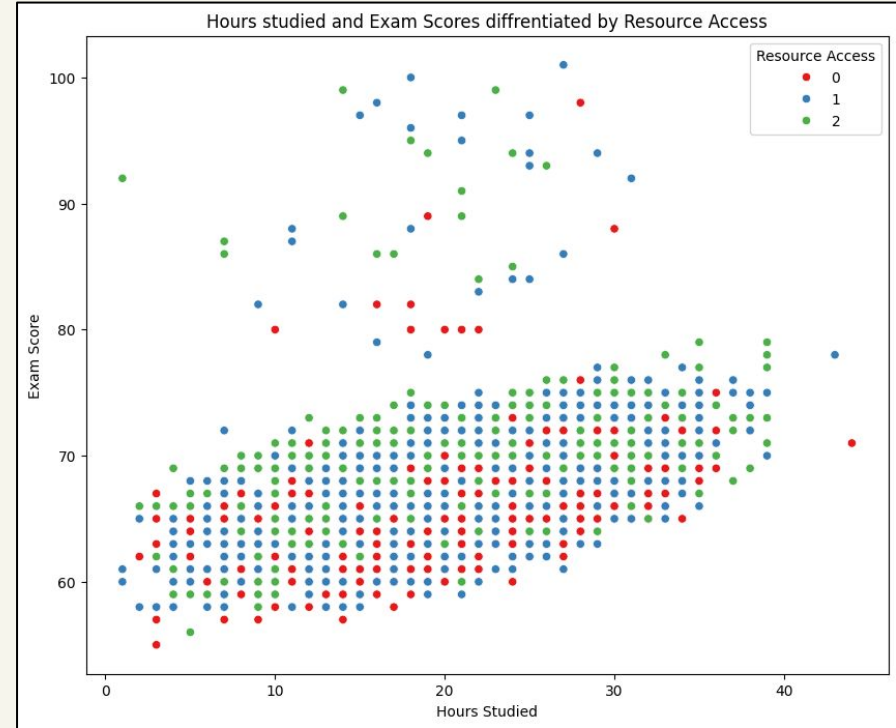
Score Distribution

- Follows a normal distribution curve.



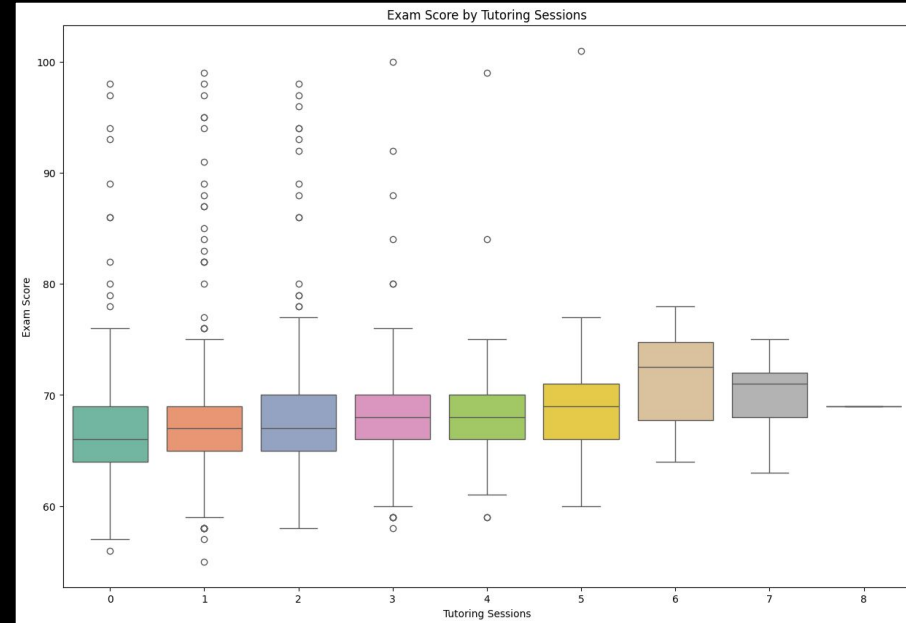
Resource Access

- High Scores dominated by students that have access to more educational resources.



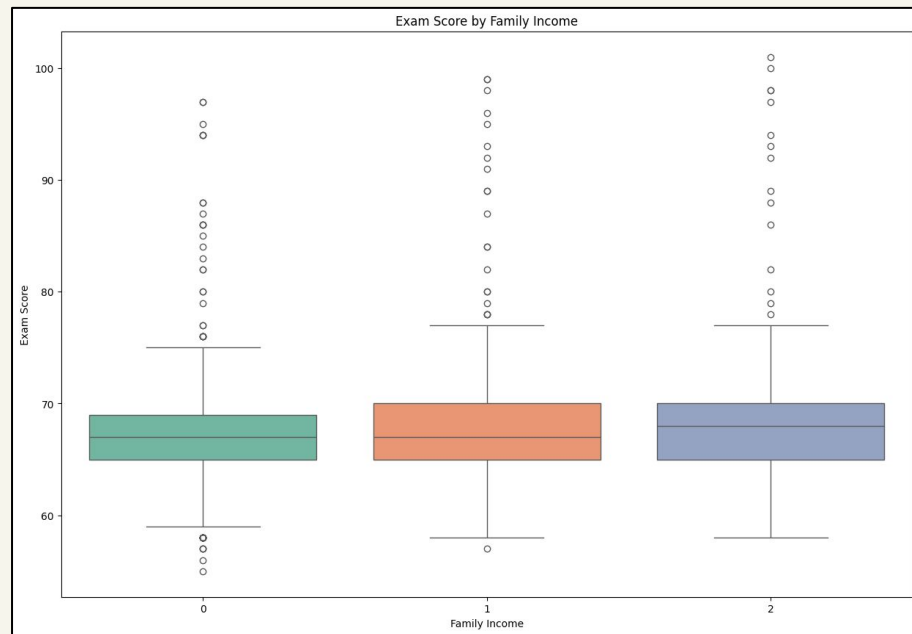
Effect of Tutoring

- Trend of higher average exam scores with more tutoring sessions.



Effect of Family Income

- As family income increases we also see an increase in Exam Scores.



Conclusion

