

# Final Project Rubric

## Grading Rubric for Report

Abstract (approximately 1/4 page)	20
Introduction (including motivation) section	20
Analysis – Descriptive analysis of the data (various graphs coded in python)	40
Preprocessing section – Create a process flow diagram of the entire modeling process and discuss	40
Modeling 1 - Specify an interpretable model and interpret	40
Modeling 2 – Specify a model that predicts well and discuss	40
Model Comparison – Show the performance of at least 5 different ML models (compare test set error)	40
Feature Importance – Specify which features are important in the data set	40
Conclusion section	10
Neatness (no credit will be given for reports with R code or data printed inside the report)	10
Group member assessment	100
<b>Total</b>	<b>400</b>

## Report Penalties

Is the pdf/docx file missing from the blackboard submission?	-10
Is the jupyter notebook file missing from the blackboard submission?	-10
Was the report handed in late?	-5/day
Are there more than 4 people in the group?	-5/person

### Additional Comments:

**Report Length:** The final report should be concise yet comprehensive. Please adhere to a minimum length of 15 pages with a maximum of 25 pages, excluding appendices.

**No Code in the Main Report:** Please refrain from including any code in the main pdf/docx document. Instead, detailed code should be provided in the jupyter notebook file, with appropriate references in the report.

**Documentation and Comments in Code:** Your code must be well-documented. This includes clear comments, use of meaningful variable names, and a logical structure that is easy to follow.

**Appendices:** You may include appendices for additional graphs, code, or extended analyses.

**Professionalism:** The report should be presented in a professional format. This includes the use of headings, subheadings, and a clear, readable font.

**Clarity and Cohesion:** The report should be written in a clear and concise manner. Arguments and explanations should be logical and easy to follow.

**Visuals:** Include relevant visuals such as graphs and diagrams where appropriate. These should be well-labeled and accompanied by explanatory captions.

**Group Work:** While collaboration within groups is encouraged, the work submitted must be original and indicative of your group's effort.

**Plagiarism:** Strictly avoid any form of plagiarism. All submissions will be checked for originality.