**Question 1**

## Project Write Up

**44** / 50 pts

### Introduction/Data (/5)

✔ **+ 5 pts** An exceptional job at introducing the data and objectives and outlining the methods used. Can be passed to the client with no editing required.

### EDA and Feature Engineering (/10)

✔ **+ 9 pts** Meaningful insights into the data are presented during the exploratory data analysis. Necessary preprocessing steps are carried out and described to a high standard. Feature engineering steps are well motivated and fully described. Code is correct, interpretations are sound, and can be passed to the client with only minor editing required. Motivations and descriptions require only very minor improvements.

### Model Fitting and Interpretations (/10)

✔ **+ 8 pts** A reasonable effective model is fit that is suitable for the problems at hand, and good case is made. Good description and interpretation of the model and results. A sound comparison is made with the baseline. Can be passed to the client with minor editing.

### Discussion and Conclusion (/10)

✔ **+ 8 pts** Compelling and convincing results with clear and actionable items for the client. The findings are discussed in detail and only minor editing required. However, one of these items may not be as strong.

### Overall Writing (/5)

✔ **+ 5 pts** Not even minor issues throughout the document. The writing is rigorous, yet flows naturally; there are no lapses in phrasing, grammar, or spelling, resulting in a report that is enjoyable to read throughout.

### Overall Coding (/5)

✔ **+ 5 pts** Code is well-structured and easy to follow and it solves the problem as intended. Code has appropriate comments and documentation and it uses best practices and industry standards.

### Overall Visualizations (/5)

✔ **+ 4 pts** Mostly clear, well-organized figures/tables with mostly appropriate labels and well-integrated with project and mostly proper referencing/citation. Visually appealing and accurate mostly

Introduction: Excellent.

Data Processing, EDA, and Feature Engineering: Good job here. The representation of the figure of correlation should be big. The use of PCA is not necessary and is also not motivated enough concerning the problem.

Model: Excellent job in evaluating and comparing the models. Graphical visualizations of the coefficients and their comparison using those graphs would be nice.

Discussion: Good