Group ID: 2025-Y2-S1-MLB-B8G2-08

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Introduction

This document summarizes all the machine learning models developed for the project, along with their corresponding accuracy values. The final selected model is highlighted based on its performance.

Model Performance Report

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| Model | X% of Variance | R^2 Value |
| Gradient Boosting | 69.7% | 0.697 |
| Random Forest Regressor | 68.1% | 0.681 |
| Linear Regression Model | 66.5% | 0.665 |
| Lasso Regression Model | 57.5% | 0.575 |
| Decision Tree Regressor | 33.3% | 0.333 |
| Extra Tree Regressor | 16.8% | 0.168 |
| Final Chosen Model : Gradient Boosting | | |

Conclusion

The final chosen model is Gradient Boosting, with the highest R^2 value, and percentage accuracy.