

Model Optimization and Tuning Phase

Date	07 July 2024
Team ID	739973
Project Title	SmartLender – Envisioning Success: Predicting University Scores With Machine Learning
Maximum Marks	2 Marks

Final Model Selection Justification :

The Final Model Selection Justification explains the rationale behind choosing the optimal machine learning model for a given task. This decision is based on a thorough analysis of various models' performance metrics, including Mae, Additionally, factors such as computational efficiency, interpretability, and scalability are considered. The justification ensures that the selected model not only performs well on the test data but also meets practical requirements, making it the most suitable choice for deployment in real-world scenarios.

Final Model	Reasoning
Random Forest	<p>Random Forest: A Powerful Ensemble Learning Algorithm</p> <p>Random Forest is a popular ensemble learning algorithm that combines multiple decision trees to produce a more accurate and robust prediction model. It is a supervised learning algorithm that can be used for both classification and regression tasks.</p>