



Model Optimization and Tuning Phase Report

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Date	20 June 2024
Team ID	739900
Project Title	Predicting Permanent Magnet Resistance Of Electronic Motor Using Machine Learning.
Maximum Marks	10 Marks

Model Optimization and Tuning Phase

performance. It includes	and Tuning Phase involves refining machine learning models for peak optimized model code, fine-tuning hyperparameters, comparing d justifying the final model selection for enhanced predictive accuracy
Final Model	Reasoning

Model	Tuned Hyperparameters	Optimal Values
Logistic regression, Decision tree regression, Randomforest regression		
erformance Me	etrics Comparison Report (2 Marks):	
SMARTBRID Lot's Bridge t	the Gap	Sma Inte
Logistic regress Decision tree regression,Rand regression		

Optimized Metric

Model

Random Forest regression	The Random Forest Regression model was selected for its superior performance, exhibiting high accuracy. Its ability to handle complex relationships, minimize over fitting, and optimize predictive accuracy aligns with project objectives, justifying its selection as the final model.
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