



Model Development Phase Template

Date	20 sep 2024
Team ID	738336
Project Title	Electric Motor Temperature Prediction using Machine Learning
Maximum Marks	5 Marks

Feature Selection Report Template

The feature selection process was critical in honing in on the most relevant variables for predicting electric motor temperatures. By focusing on these features, we aim to enhance the predictive performance of our machine learning models while optimizing computational efficiency.

Feature	Description	Selected (Yes/No)	Reasoning
Current (Amperes):	Measures the electric current flowing through the motor, which can impact temperature.	Yes	These features provide valuable information to the machine learning model for identifying fraudulent activities. Here's a quick recap of each feature:

Voltage (Volts):	The voltage supplied to the motor; variations can affect performance and temperature.	Yes	The voltage supplied to the moinfluences its efficiency a thermal performance. Variation in voltage can lead to changes motor behavior and temperatures.
Motor Loa (% of Rat Load)	The percentage of the motor of	Yes	Operating closer to the motor rated load generally leads higher temperatures. This feat helps understand how the loaffects thermal conditions.



