Model Development Phase Template

Date	20 SEP 2024
Team ID	738336
Project Title	Electric Motor Temperature Prediction using Machine Learning
Maximum Marks	6 Marks

Model Selection Report

In this report, we will outline the process of selecting suitable machine learning models for predicting electric motor temperature. This includes the evaluation of different algorithms based on their performance metrics, strengths, and weaknesses.

Model Selection Report:

Model	Description	Hyperparameters	Performance Metri

Model 1	Machine learning fights The goal of this project is to predict the temperature of electric motors using machine learning techniques. Accurate temperature predictions are crucial for maintaining motor efficiency, preventing overheating, and ensuring longevity. This report outlines the model selection process, including the evaluation of various algorithms based on their performance in predicting motor temperature..	Machine learning for Hyperparameters are crucial for controlling the learning process and performance of machine learning models. Tuning them effectively can lead to improved accuracy and generalization. Below is an overview of the key hyperparameters for the models considered in the electric motor temperature prediction task, along with recommendations for tuning strategies..	When evaluating machine learning models, it's essential to use appropriate performance metrics to assess how well the model predicts motor temperature. Here are the key performance metrics commonly used for regression tasks, including their definitions and how they can be interpreted.