Data Collection and Preprocessing Phase

Date	20 January 2026
Team ID	LTVIP2026TMIDS87753
Project Title	Electric Motor Temperature Prediction using Machine Learning
Maximum Marks	2 Marks

Electric Motor Temperature Prediction using Machine Learning Identification Template

The Electric Motor Temperature Prediction project not only underscores the value of machine learning in predictive analytics but also sets the stage for further innovations in motor management and operational efficiency. By leveraging data-driven insights, organizations can enhance their decision-making processes, ultimately leading to safer and more efficient operations.

Electric Motor Temperature Prediction using Machine Learning Template

Section	Description
Project Overview	This project aims to leverage machine learning techniques to predict the temperature of electric motors based on historical and real-time data, enabling proactive maintenance and operational efficiency.
Data Collection Plan	In this project we have used PS_20174392719_1491204439457_logs.csv data. This data is downloaded from kaggle.com. Please refer to the link given below to download the dataset.

Raw Data Sources Identified	There are many popular open sources for collecting the data. Eg: kaggle.com , etc.

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Dataset 1	Raw Data of (Type,Amount,NameOrig,Old& New BalanceOrg)	https://www.kaggle.com/datasets/wkirgsn/electric-motor-temperature	CSV	186 MB	Public