

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	22 January 2026
Team ID	LTVIP2026TMIDS47257
Project Name	Electric Motor Temperature Prediction using Machine Learning
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Step-1: Problem Statement

Electric Motor Temperature Prediction using Machine Learning is a predictive maintenance solution aimed at forecasting the temperature of electric motors in industrial settings. By analyzing historical operational data such as motor load, voltage, current, and environmental conditions, combined with machine learning algorithms, this project aims to predict motor temperatures accurately. The goal is to prevent overheating, avoid equipment failures, optimize maintenance schedules, and improve overall operational efficiency.

Step-2: Project Objectives

By the end of this project:

- You'll be able to understand the problem to classify if it is a regression or a classification kind of problem.
- You will be able to know how to pre-process/clean the data using different data pre-processing techniques.
- Applying different algorithms according to the dataset
- You will be able to know how to find the accuracy of the model.
- You will be able to build web applications using the Flask framework

Step-3: Technologies or Frameworks

Python, Python Web Frameworks, Python For data Analysis, Python For data Visualization, Exploratory data Analysis, Data Preprocessing Techniques, Machine Learning, IBM Watson