

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	05 February 2026
Team ID	LTVIP2026TMIDS47257
Project Name	Electric Motor Temperature Prediction using Machine Learning
Maximum Marks	5 Marks

Visualizing and analysing the data

As the dataset is downloaded. Let us read and understand the data properly with the help of some visualization techniques and some analysing techniques.

Note: There is n number of techniques for understanding the data. But here we have used some of it. In an additional way, you can use multiple techniques.

Activity 1: Importing the libraries

Import the necessary libraries as shown in the image To know about the packages refer to the link given on prerequisites

Activity 2: Read the Dataset

The dataset is read as a data frame (df in our application) using the pandas' library (pd is the alias name given to the pandas package).

Activity 3: Univariate analysis

Here we get to know about our data

Bar Graph:

A bar chart or bar graph is a chart or graph that presents categorical data with rectangular bars with heights or lengths proportional to the values that they represent. The bars can be plotted vertically or horizontally.

Box plot:

A boxplot is a standardized way of displaying the distribution of data based on a five-number summary (“minimum”, first quartile (Q1), median, third quartile (Q3), and “maximum”). It can tell you about your outliers and what their values are.

Distribution plot:

The distribution plot is suitable for comparing range and distribution for groups of numerical data. Data is plotted as value points along an axis.