

# Battery Monitoring System for Ensuring Safety

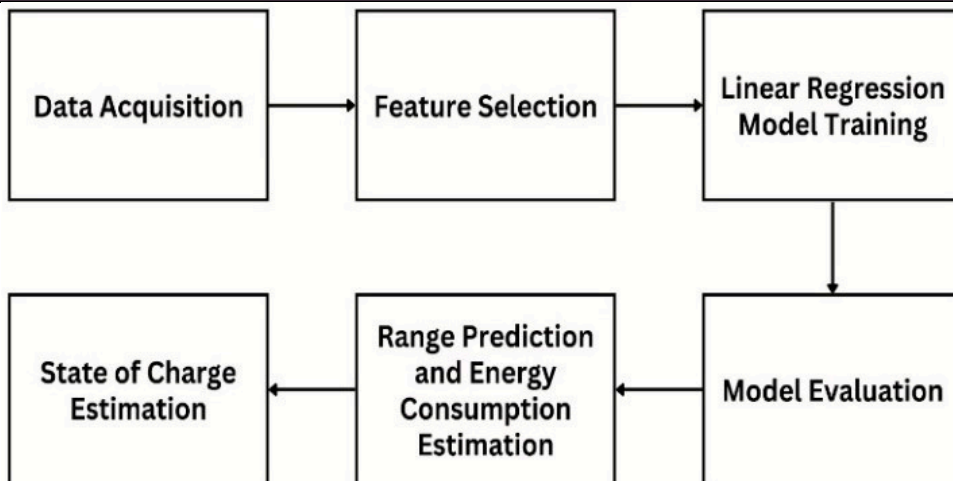
## Description

This system helps in determining the EV State of Charge and making decisions related to charging and discharging. It aims to enhance understanding and decision-making in real-life EV usage scenarios.

## Specifications

1. Combination of Linear regression and multivariate analysis technique
2. Make charging/discharging decisions based on predicted range and current state of charge (SoC) of the battery

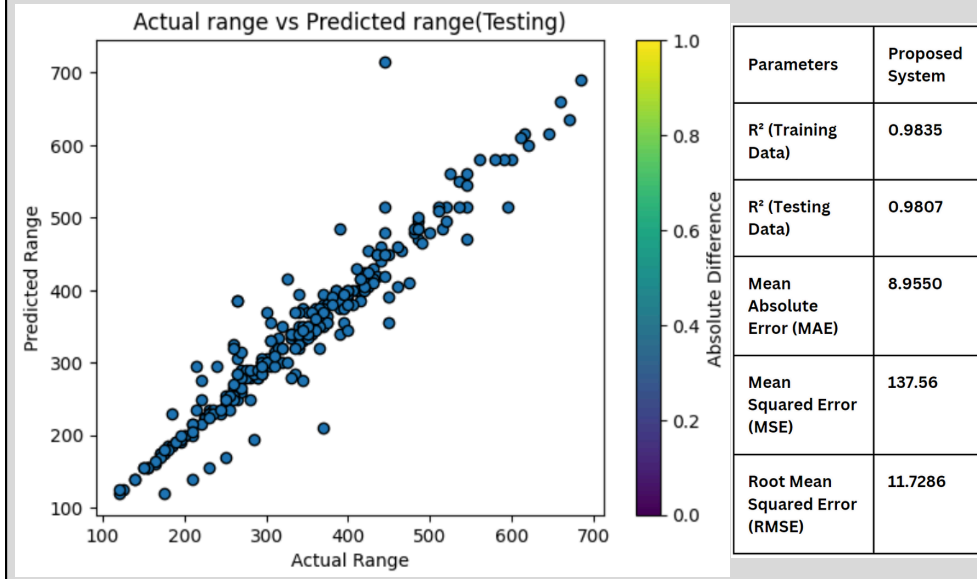
## Block Diagram



## Novelty

1. Precise prediction of the range of distance that can be travelled based on the SoC (State of Charge).
2. Higher R-squared (0.9835) and lower MAE (8.9550) and MSE (137.56) values

## Results



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