

**Project Development Phase**  
**Model Performance Test**

Date	10 February 2025
Team ID	LTVIP2026TMIDS87694
Project Name	EV Battery Performance and Range Monitoring System
Maximum Marks	4

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

S.No	Parameter	Values	Screenshot
1	Model Summary	Random Forest Regressor (n_estimators=100) Features: battery_level, temp, distance_traveled Dataset: 339k EV records (80/20 train/test split)	[Model trained successfully]
2	Accuracy	Training Accuracy: <b>92.5%</b> Validation Accuracy: <b>87.3%</b> (Test R <sup>2</sup> score)	[R <sup>2</sup> metrics plot]
3	Fine Tuning Result (if Done)	Not performed (baseline model performs well) Validation Accuracy: N/A	N/A