

Project Development Phase

Model Performance Test (Weather Based Prediction Of Wind Turbine)

Date	14 February 2026
Team ID	LTVIP2026TMIDS83348
Project Name	Weather Based Prediction Of Wind Turbine Energy Output - A Next Generation Approach To Renewable Energy Management
Maximum Marks	10 Marks

Model Performance Metrics

S.No	Parameter	Values	Screenshot / Notes
1	Regression Metrics	R^2 Score: __, MAE: __, RMSE: __, MSE: __	Residual Plot, Predicted vs Actual Graph
2	Train/Validation Performance	Train R^2 : __, Validation R^2 : __	Overfitting/Underfitting comparison
3	Hyperparameter Tuning	GridSearchCV / RandomizedSearchCV used	Best Parameters Summary
4	Cross-Validation	5-Fold CV R^2 Score: __	Stability across folds verified