



Model Development Phase Template

Date	17 July 2024
Team ID	xxxxxx
Project Title	Predicting The Energy Output Of Wind Turbine Based On Weather Condition
Maximum Marks	4 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include Mean Absolute Error, R2 Score for multiple models, presented through respective screenshots.

Initial Model Training Code:

1. Random Forest Regressor





2. Linear Regression

Model Validation and Evaluation Report:

Model	Mean Absolute Error	R2 Score
Random Forest Regressor	D v	<pre># Calculate R-squared</pre>
Linear Regression	# Calculate MAE mae = mean_absolute_error(y_test, y_pred) print("Mean Absolute Error:", mae) <pre></pre>	# Calculate R-squared r2 = r2_score(y_test, y_pred) print("R-squared:", r2) v 0.0s R-squared: 0.8997953576462828