

Model Development Phase Template

Date	15 March 2024
Team ID	SWTID1720171463
Project Title	Predicting The Energy Output Of Wind Turbine Based On Weather Condition
Maximum Marks	5 Marks

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Date/Time	Timestamp indicating the date and time of each observation, allowing for temporal analysis and seasonality considerations.	No	For predicting data or time is not required
LVActivePower (kW)	The actual power output generated by the wind turbine at a given moment, measured in kilowatts (kW).	Yes	Relevant for predicting energy

Wind Speed (m/s)	The speed of the wind at the turbine's location, measured in meters per second (m/s).	Yes	Speed is important to predict
Theoretical Power Curve (KWh)	The theoretical maximum power output that could be achieved by the wind turbine at a specific wind speed, measured in kilowatt-hours (KWh).	Yes	Helps in predicting the maximum energy output
Wind Direction (°)	The direction from which the wind is blowing, measured in degrees.	No	Not relevant