Explanation of the Features used to predict Power(kW)

Torque: The measure of rotational force exerted on a system or component.

Gearbox\_T1\_Intermediate\_Speed\_Shaft\_Temperature: The temperature of the intermediate speed shaft in the gearbox.

Gearbox\_T1\_High\_Speed\_Shaft\_Temperature: The temperature of the high-speed shaft in the gearbox.

Gearbox\_T3\_High\_Speed\_Shaft\_Temperature: The temperature of the high-speed shaft in the third stage of the gearbox.

Gearbox\_Oil-2\_Temperature: The temperature of the second gearbox oil.

Tower Acceleration Lateral: The lateral (sideways) acceleration experienced by the wind turbine tower.

Temperature Gearbox Bearing Hollow Shaft: The temperature of the bearing hollow shaft in the gearbox.

Gearbox\_T3\_Intermediate\_Speed\_Shaft\_Temperature: The temperature of the intermediate speed shaft in the third stage of the gearbox.

Gearbox\_Oil-1\_Temperature: The temperature of the first gearbox oil.

Gearbox\_Oil\_Temperature: The temperature of the gearbox oil.

Temperature Bearing A: The temperature of bearing A in the wind turbine.

Temperature Trafo-3: The temperature of transformer 3 in the wind turbine.

Voltage A-N: The voltage between phase A and neutral in the electrical system.

Tower Acceleration Normal: The normal (vertical) acceleration experienced by the wind turbine tower.

Temperature Trafo-2: The temperature of transformer 2 in the wind turbine.

Voltage C-N: The voltage between phase C and neutral in the electrical system.

Converter Control Unit Reactive Power: The reactive power controlled by the converter unit.

Reactive Power: The power oscillations that occur in an AC power system due to inductive or capacitive loads.

Converter Control Unit Voltage: The voltage controlled by the converter unit.