

## Model Development Phase Template

Date	July 2024
Team ID	Team-739788
Project Title	Power consumption analysis for households
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.

<b>Feature</b>	<b>Description</b>	<b>Selected (Yes/No)</b>	<b>Reasoning</b>
<b>Date</b>	The date of the measurement.	No	The date does not significantly impact the analysis of household energy consumption.
<b>Time</b>	The time of the measurement.	no	The time may introduce noise and variability without adding substantial value to the energy analysis.
<b>Global_active_power</b>	The household global active power (in kilowatts).	Yes	Active power is crucial for understanding the overall energy consumption in the household.
<b>Global_reactive_power</b>	The household global reactive power (in kilowatts).	Yes	Reactive power provides insights into the efficiency of the household's electrical system.
<b>Voltage</b>	The voltage (in volts).	Yes	Voltage levels can indicate potential issues in the power supply and affect energy consumption patterns.
<b>Global_intensity</b>	The household global current intensity (in amperes).	Yes	Current intensity is directly related to the power consumption and can highlight peaks in usage.

<b>Sub_metering_1</b>	Energy sub-metering (in watt-hours) in different areas of the household.	Yes	Sub-metering helps to identify specific areas of high energy consumption within the household.
<b>Sub_metering_2</b>	Energy sub-metering (in watt-hours) in different areas of the household.	Yes	Sub-metering helps to identify specific areas of high energy consumption within the household.
<b>Sub_metering_3</b>	Energy sub-metering (in watt-hours) in different areas of the household.	Yes	Sub-metering helps to identify specific areas of high energy consumption within the household.
<b>Sub_metering_4</b>	Calculated feature representing other energy consumption areas not covered by the first three sub-meterings.	Yes	It is important to include this data to have a comprehensive understanding of the total energy consumption in the household.