NAAN MUTHALVAN

ARTIFICIAL INTELLIGENCE

PROJECT TITLE

MEASURE ENERGY CONSUMPTION

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YEAR & SEM : III & 05
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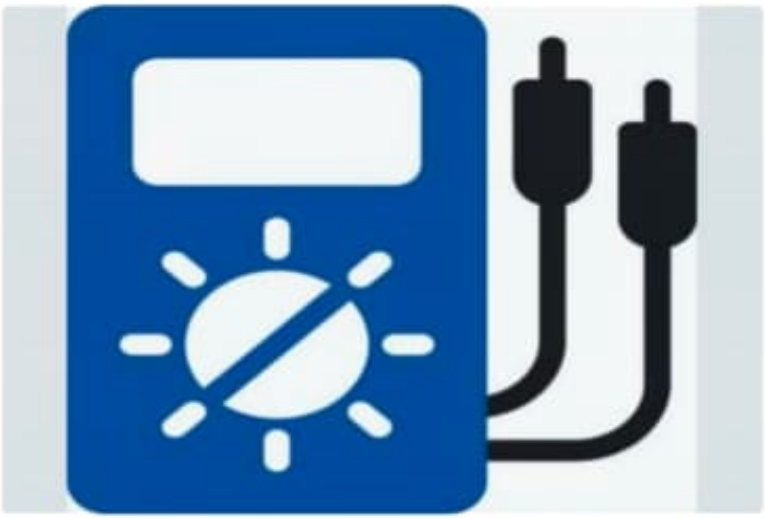
PHASE 1

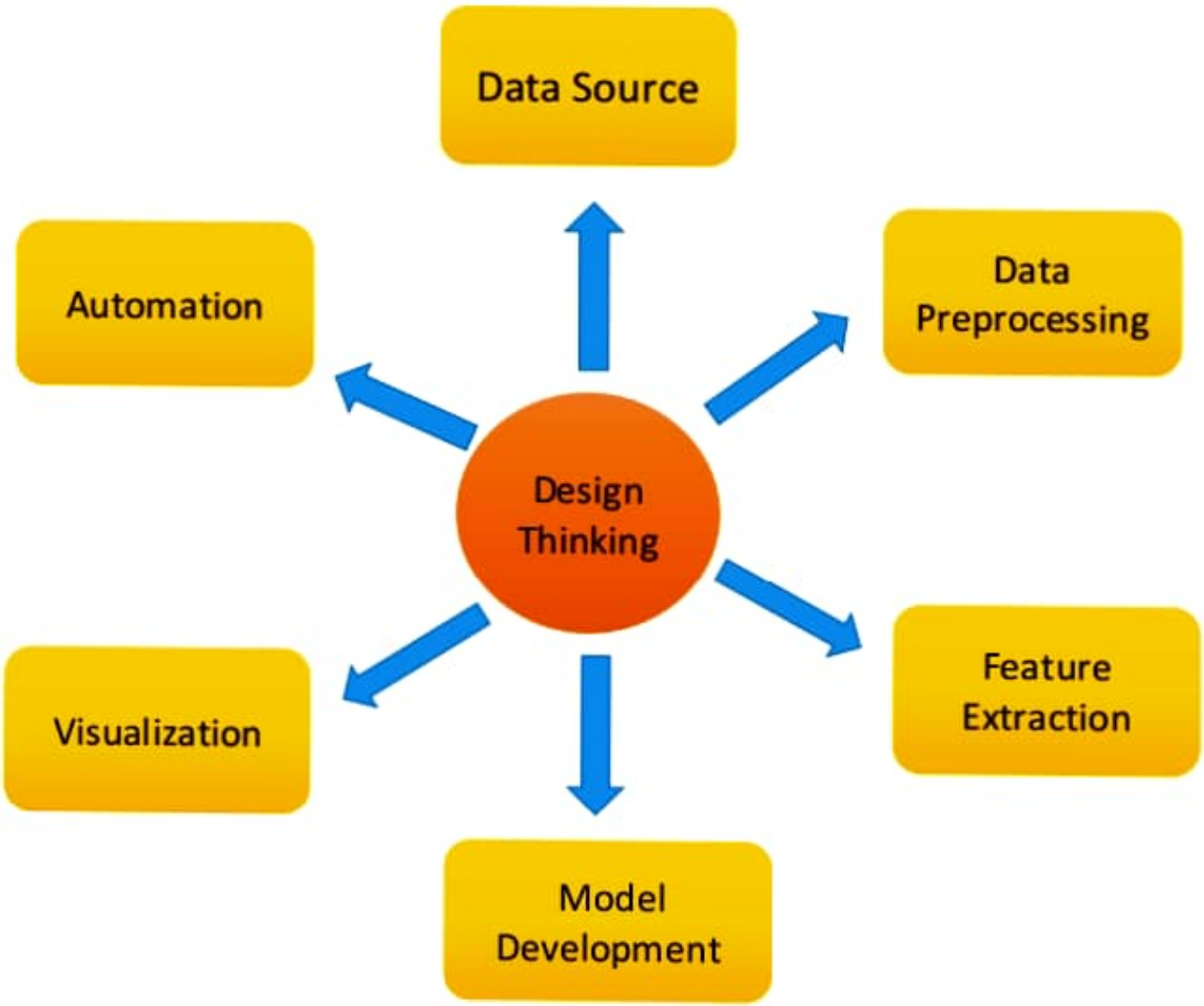
PROBLEM DEFINITION AND DESIGN THINKING

PROBLEM DEFINITION

The problem at hand is to create an automated system that measures energy consumption,analysis the data,and provides visualizations for informed decision making.This solution aims to enhance efficiency,accuracy,and ease of understanding in managing energy consumption across various sectors.



DESIGN THINKING



Data Source

Identify an available dataset containing energy consumption measurements.

Data Preprocessing

Clean,transform and prepare the dataset for analysis.

Clean

Analysis

Transform

Feature Extraction

Extract relevant features and metrics from the energy consumption data.

Automation

Build a script that automates data collection,analysis and visualization processes.

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Visualization

Develop visualization (graphs,charts) to present the energy consumption trends and insights.

Automation

Build a script that automates data collection,analysis and visualization processes.

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