NAAN MUTHALVAN

ARTIFICIAL INTELLIGENCE

PROJECT TITLE

MEASURE ENERGY CONSUMPTION

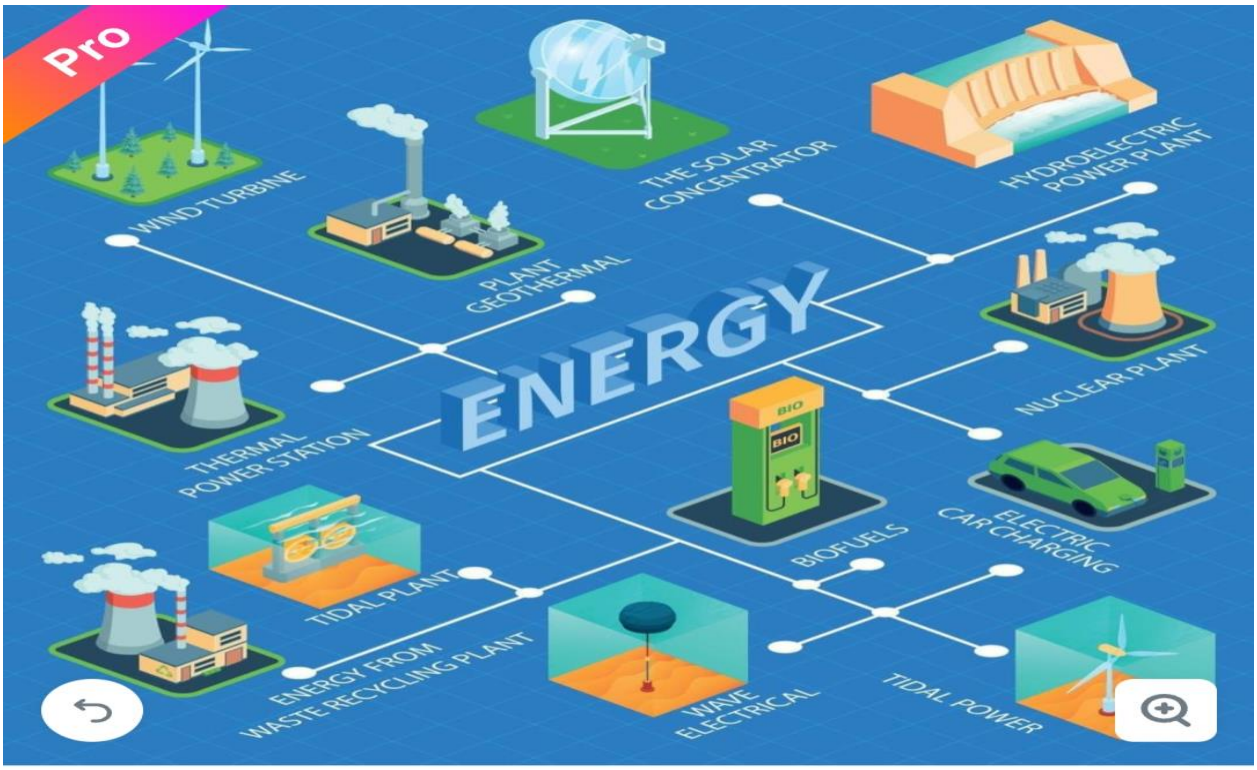
REG.NO : 712321104001
NAME : BHUVANESH KUMAR P
DEPT : COMPUTER SCIENCE AND ENGINEERING
YEAR & SEM : III & 05
COLLEGE : PARK COLLEGE OF TECHNOLOGY

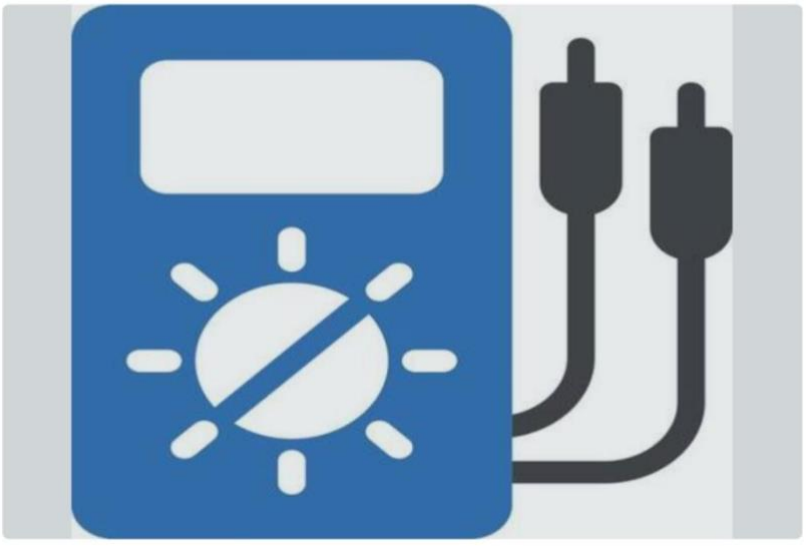
PHASE 1

PROBLEM DEFINITION AND DESIGN THINKING

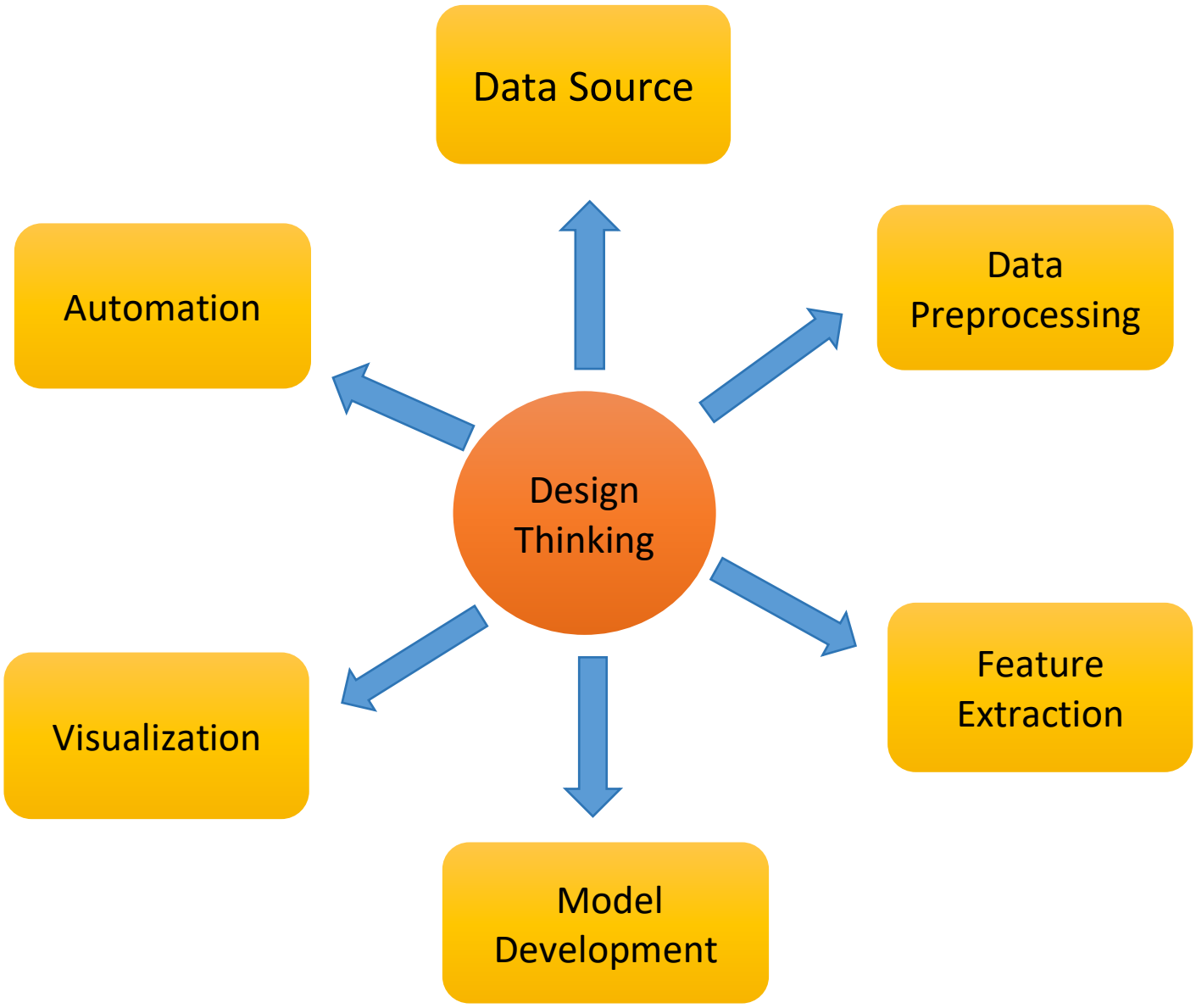
PROBLEM DEFINITION

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.

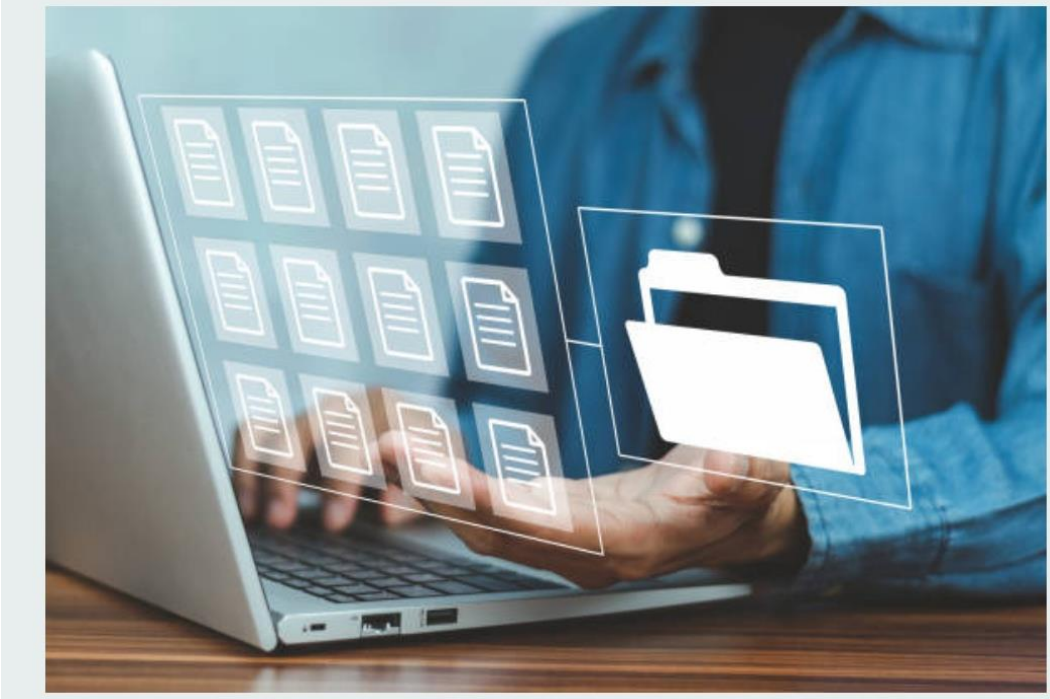
Clean

Analysis

Transform

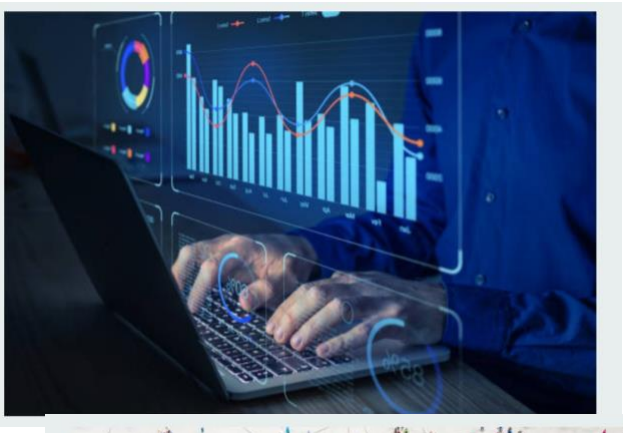
Feature Extraction

Extract relevant features and metrics from the energy consumption data.



Model Development

Utilize statistical analysis to uncover trends,patterns and anomalies in the data.



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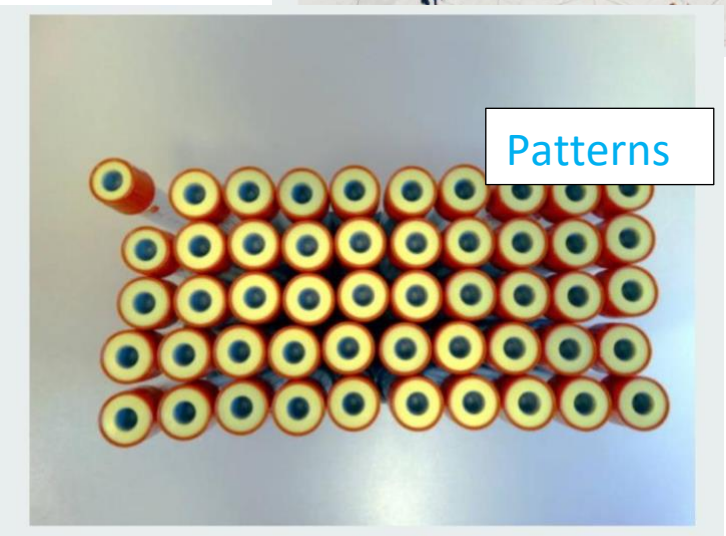
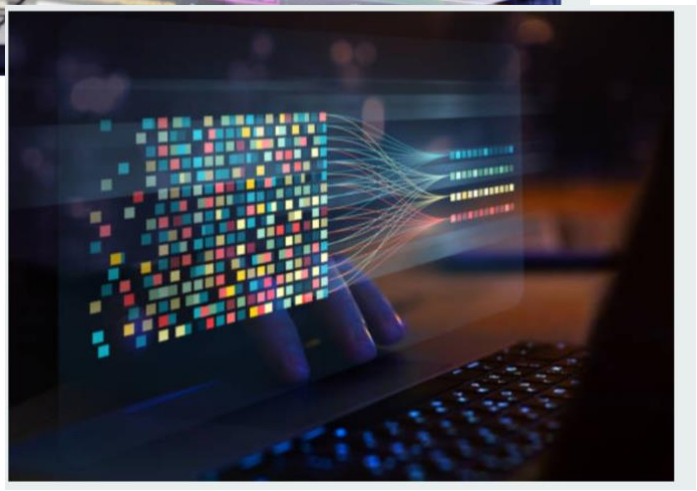


Patterns

Visualization

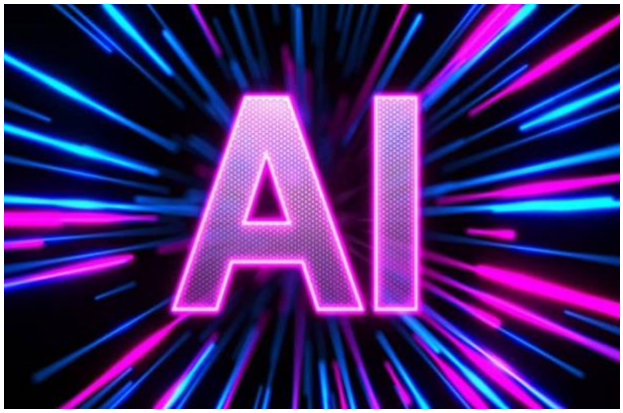
Develop visualization (graphs,charts) to present the energy consumption trends and insights.



Visual Insights

Automation

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



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