IBM project phase 1

Problem definition and design thinking

Group 4

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Content

1. Problem definition
2. Design thinking

Problem definition

- The problem at hand is to create an automated system that measures energy consumption, analyzes 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

1. Data source
2. Data preprocessing
3. Feature extraction
4. Model development
5. Visualization
6. Automation

Data source

Identify an available dataset containing energy consumption measurements.

Data preprocessing

Clean, transform, and prepare the dataset for analysis.

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.

Visualization

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

Automation

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

Thank you