Data Collection and Preprocessing Phase

Date	June 2024
Team ID	Team-740101
Project Title	Power Consumption Analysis For Households
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

The Data Collection Plan for analyzing household power consumption typically involves gathering data from multiple sources to gain comprehensive insights. Primary sources include smart meter data, which provides detailed electricity consumption readings at regular intervals. IoT devices, such as smart plugs and energy monitors, offer additional granularity by capturing usage patterns of specific appliances.

Data Collection Plan Template

Section	Description
Project Overview	"Project aims to analyze household power consumption patterns to optimize energy usage and reduce costs."
Data Collection Plan	"Data collection plan includes obtaining smart meter data, deploying IoT devices, and conducting surveys to analyze household power consumption."
Raw Data Sources Identified	"Raw data sources include smart meter readings, IoT device data from energy monitors, and survey responses on appliance usage and household habits.".

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Access Permissions
Dataset 1	In this project we have used .csv data. This data is downloaded from kaggle.com.	household_power_consumption.txt	CSV	Public