DataCollectionandPreprocessingPhase

Date	June2024
TeamID	Team-739788
ProjectTitle	PowerConsumptionAnalysisForHouseholds
MaximumMarks	2 Marks

DataCollectionPlan& RawDataSourcesIdentification Template

The Data Collection Plan for analyzing household power consumption typically involves gathering data from multiple sources to gain comprehensive insights. Primary sources include smartmeterdata,whichprovidesdetailedelectricityconsumptionreadingsatregularintervals. IoTdevices,suchassmartplugsandenergymonitors,offeradditionalgranularitybycapturing usage patterns of specific appliances.

DataCollectionPlanTemplate

Section	Description
ProjectOverview	"Projectaimstoanalyzehouseholdpowerconsumptionpatternsto optimize energy usage and reduce costs."
DataCollectionPlan	"Datacollectionplanincludesobtainingsmartmeterdata,deploying IoT devices, and conducting surveys to analyze household power consumption."
RawDataSources Identified	"Rawdatasourcesincludesmartmeterreadings,IoTdevicedatafrom energy monitors, and survey responses on appliance usage and household habits.".

RawDataSourcesTemplate

Source Name	Description	Location/URL	Format	Access Permissions
Dataset1	In this project we have used.csvdata.Thisdata is downloaded from kaggle.com.	household_power_consumption.txt	CSV	Public