Data Collection and Preprocessing Phase

Date	11-07-2024
Team ID	739736
Project Title	SMOKE DETECTION USING IOT DATASET
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

Data Collection Plan Template

Section	Description
Project Overview	The smoke detector project aims to develop a reliable and cost-effective device that detects smoke and alerts users to potential fire hazards. It incorporates sensors to detect smoke particles and emits an alarm when dangerous levels are detected. The project includes both hardware and software components to ensure accuracy and prompt notification.
Data Collection Plan	Search for datasets related to smoke detectors. Prioritize datasets with diverse demographic information. Temperature, Humidity and Raw H2 related details for machine learning analysis.

Raw Data Sources Identified	The raw data sources for this project include datasets obtained from Kaggle & UCI, the popular platforms for data science competitions and repositories. The provided sample data represents a subset of the collected information, encompassing variables such as temperature.

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Kaggle Dataset	The dataset comprises temperature, humidity, raw H2, NC2.5 etc. related data	https://www.kaggle.com/datasets/deepcontractor/smoke-detection-dataset	CSV	4 MB	Public