**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 |