**Data Collection and Preprocessing Phase**

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| Date | 15 March 2024 |
| Team ID | 740139 |
| Project Title | Acoustic Fire Extinguishing Prediction |
| 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**

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| --- | --- |
| **Section** | **Description** |
| Project Overview | The project aims to predict the effectiveness of acoustic waves in extinguishing fires based on various environmental and fire-related parameters. |
| Data Collection Plan | Search for datasets related to fire incidents, acoustic wave experiments, and environmental conditions. <br> - Prioritize datasets with comprehensive details on fire characteristics and acoustic parameters. |
| Raw Data Sources Identified | The raw data sources for this project include datasets from fire safety research institutions and industrial experiments. <br> The provided sample data represents a subset of the collected information, encompassing variables such as fire type, temperature, intensity, humidity, acoustic frequency, duration, and success rate. |

**Raw Data Sources Template**

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| --- | --- | --- | --- | --- | --- |
| **Source Name** | **Description** | **Location/URL** | **Format** | **Size** | **Access Permissions** |
| Kaggle Dataset | Dataset on various analysing techniques characteristics and experiments on fire extinguishing | <https://www.kaggle.com/code/jeyasrisenthil/flame-extinction-status-prediction/input> | CSV | 110kb | public |