**Data Collection and Preprocessing Phase**

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| Date | 24 June 2025 |
| Team ID | xxxxxx |
| Project Title | Predicting plant growth stages with environmental and management data using power bi |
| 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 | |  | | --- | | This project aims to analyze the impact of environmental factors—such as  soil type, humidity, temperature, water frequency, and fertilizer—on plant  growth. The objective is to build insights and dashboards that help farmers  make data-driven decisions to improve crop productivity. |  |  | | --- | |  | |
| Data Collection Plan | |  | | --- | | Data is collected through a combination of field observations, environmental  sensors, and manual inputs recorded during a controlled agricultural  experiment. Key variables like temperature, humidity, soil type,  water frequency, and growth milestones were recorded for each planting cycle. |  |  | | --- | |  | |
| Raw Data Sources Identified | - **Soil Type Records:** Collected manually from field logs describing soil composition (e.g., loam, clay, sandy). - **Weather Data:** Temperature and humidity captured using environmental sensors or weather APIs. - **Watering Schedule:** Logged manually during the plant growth phase. - **Fertilizer Type:** Input recorded during planting based on applied treatment. - **Growth Milestone Count:** Manually observed and noted based on plant development stages. |

**Raw Data Sources Template**

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| --- | --- | --- | --- | --- | --- |
| **Source Name** | **Description** | **Location/URL** | **Format** | **Size** | **Access Permissions** |
| Plant Growth Data Classification, Real-Dataset (Kaggle) | Contains plant growth data with attributes such as soil type, temperature, humidity, water frequency, fertilizer type, and growth milestones. | https://www.kaggle.com/datasets/gorororororo23/plant-growth-data-classification/data | CSV | 12 KB | Public |