**Data Collection and Preprocessing Phase**

|  |  |
| --- | --- |
| Date | 15 March 2024 |
| Team ID | 739833 |
| Project Title | Crop Prediction using machine learning |
| 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 | Machine Learning can help farmers to identify the more profitable crops to plant based on market demand and environmental factors. By analyzing historical market data and weather patterns, machine learning can predict the demand for different crops. |
| Data Collection Plan | Kaggle |
| Raw Data Sources Identified | N:Ratio of Nitrogen content in the soil  P:Ratio of Phosphorous content in the soil  K:Ratio of Potassium content in the soil  Temperature: The temperature in degrees Celsius  Humidity: Relative humidity in %  Ph:ph value of the soil  Rainfall: Rainfall in mm |

**Raw Data Sources Template**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source Name** | **Description** | **Location/URL** | **Format** | **Size** | **Access Permissions** |
| Dataset 1 | The dataset consists single CSV file. This dataset is mainly concerning Indian climatic conditions. There are seven input features only one output features. | "C:\Users\prava\Downloads\Crop\_recommendation.csv" | CSV | 146KB | Public |