Data Collection and Preprocessing Phase

Date	10 July 2024
Team ID	739713
Project Title	Beansense: Precision Bean Classification For Enhanced Agricultural And Culinary Applications
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Report:

The data collection plan for Precision Bean Classification involves sourcing sensor data from IoT devices and farmer input via mobile apps, ensuring comprehensive coverage for agricultural and culinary applications.

Data Collection Plan:

Section	Description
Project Overview	The project aims to enhance agricultural and culinary applications through precise classification of beans using advanced data analytics methods.
Data Collection Plan	Deploy IoT sensors for real-time monitoring of environmental variables crucial for bean growth, integrate farmer feedback via mobile apps, and utilize market and historical data for comprehensive analysis, ensuring precise classification for agricultural and culinary applications.
Raw Data Sources Identified	Sensor data, farmer input, market trends, historical yield records, and weather forecasts

Raw Data Sources Report:

Source Name	Description	Location/URL	Format	Size	Access Permissions
Kaggle Dataset	It includes labeled data of bean varieties with associated agricultural and culinary attributes, enabling machine learning models to classify beans accurately for both farming and culinary applications.	https://docs.google.com/document/d/1PDjklcAEolTyjf78Y-Bky-1c7F8YvKno/edit	CSV	15 kB	Public
UCI	It related to Precision feature labeled data on bean characteristics and attributes essential for agricultural and culinary applications, facilitating research and development in bean classification algorithms.	https://docs.google.com/document/d/1PDjklcAEolTyjf78Y-Bky-1c7F8YvKno/edit	CSV	13.6 kB	Public