Project Initialization and Planning Phase

Date	15 July 2024
Team ID	740662
Project Title	Golden Harvest: A predictive model for apple Quality Assurance
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview	
Objective	"Develop a robust predictive model for apple quality assurance in the Golden Harvest project, ensuring precision and reliability in assessing fruit quality metrics."
Scope	The scope for the Golden Harvest project aiming to develop a predictive model for apple quality assurance includes several key components: 1. **Data Collection and Integration**
Problem Statement	
Description	The Golden Harvest project aims to revolutionize apple quality assurance through the development and implementation of an advanced predictive model.
Impact	The impact of implementing a predictive model for apple quality assurance in the Golden Harvest project can be profound and multifaceted: 1. **Enhanced Quality Consistency**

Proposed Solution	
Approach	Creating a predictive model for apple quality assurance, termed "Golden Harvest," involves several key steps and considerations. Here's an approach you could take: **1. Define Objectives and Metrics**
Key Features	To build a predictive model for apple quality assurance, termed "Golden Harvest," it's essential to identify key features that significantly influence the quality of apples. Here are some key features you should consider incorporating into your model: **1. Physical Characteristics**

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	T4 GPU
Memory	RAM specifications	8GB
Storage	Disk space for data, models, and logs	1 TB SSD
Software		
Frameworks	Python frameworks	Flask
Libraries	Additional libraries	scikit-learn, pandas, NumPy, matplotlib, seaborn
Development Environment	IDE, version control	Jupiter Notebook, PyCharm
Data		
Data	Source, size, format	Kaggle dataset,614, csv 1year

		dataset,690, csv