



## **Project Initialization and Planning Phase**

Date	15 July 2024
Team ID	739885
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		