Project Planning Document

Project Title: **Smart Sorting - Transfer Learning for Identifying Rotten Fruits and Vegetables**

Sprint Planning Overview

Agile Concepts

• A Sprint is a fixed period or duration in which a team works to complete a set of tasks.

• An Epic is a big task or project that is too large to complete in one sprint. It is broken down into smaller tasks (stories) that can be completed over multiple sprints.

• A Story is a small task. It is part of an Epic.

• A Story Point is a number that represents how much effort a story takes to complete, often based on the Fibonacci series.

Story Point Effort Levels

Very Easy Task = 1 Story Point

Easy Task = 2 Story Points

Moderate Task = 3 Story Points

Difficult Task = 5 Story Points

Sprint 1 Plan (5 Days)

Epic: Data Collection

• Collection of Data - 2 Story Points (Easy Task)

• Loading Data - 1 Story Point (Very Easy Task)

Epic: Data Preprocessing

• Handling Missing Values - 3 Story Points (Moderate Task)

• Handling Categorical Values - 2 Story Points (Easy Task)

Total Story Points for Sprint 1 = 8

Sprint 2 Plan (5 Days)

Epic: Model Building

• Model Building - 5 Story Points (Difficult Task)

• Testing Model - 3 Story Points (Moderate Task)

Epic: Deployment

• Working HTML Pages - 3 Story Points (Moderate Task)

• Flask Deployment - 5 Story Points (Difficult Task)

Total Story Points for Sprint 2 = 16

Velocity Calculation

Total Story Points = 8 (Sprint 1) + 16 (Sprint 2) = 24

Number of Sprints = 2

Velocity = Total Story Points Completed / Number of Sprints = 24 / 2 = 12

Team Velocity = 12 Story Points per Sprint