

Agile Sprint Plan - CleanTech Waste Classifier

Sprint 1: Dataset Preparation & Preprocessing (5 Days)

Epic: Data Preparation

- 1.1 Dataset Upload & Unzipping - 1 point
- 1.2 Dataset Structure Verification - 2 points
- 1.3 Image Preprocessing (Resizing, Augmentation) - 3 points
- 1.4 Train-Test Split using ImageDataGenerator - 2 points

Total Story Points: 8

Sprint 2: Model Design & Training (5 Days)

Epic: Model Building

- 2.1 Model Architecture with MobileNetV2 - 5 points
- 2.2 Compilation and Training (2-3 Epochs) - 3 points
- 2.3 Accuracy & Loss Visualization - 2 points
- 2.4 Model Saving (.h5 format) - 1 point

Total Story Points: 11

Sprint 3: Deployment & Frontend (5 Days)

Epic: Deployment & Interface

- 3.1 Streamlit Frontend Design - 3 points
- 3.2 Model Integration in Streamlit - 5 points
- 3.3 Testing with Real-Time Images - 2 points
- 3.4 Packaging Project for GitHub - 1 point

Total Story Points: 11

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Velocity Summary

Total Story Points = $8 + 11 + 11 = 30$

Number of Sprints = 3

Velocity = $30 / 3 = 10$ Story Points/Sprint