PHASE 4: PROJECT PLANNING (AGILE METHODOLOGIES)

To ensure the project progresses smoothly and efficiently, the Agile development framework is adopted for managing tasks through well-defined sprints. This phase emphasizes iterative development, regular feedback, and team collaboration. The implementation is divided into three focused sprints:

◈ Sprint 1

Collect relevant datasets, perform data cleaning and augmentation, and split the data into training, validation, and test sets.

◈ Sprint 2

Implement and fine-tune the MobileNetV2 model and evaluate performance using metrics like accuracy, precision, and recall.

◈ Sprint 3

Develop the frontend user interface, integrate the model with a backend (e.g., Flask), and conduct initial testing and feedback collection.

◈ Task Allocation

- B. Veera Mallika – Responsible for Data Collection & Preparation
- C. Pushpavathi and B. Lalithama – Handle Model Training & Validation
- B. Sai Chandana – Develop UI and handle Backend Integration
- B. Maheshwari – Oversee Testing and Documentation

◈ Conclusion

This structured approach ensures timely delivery, continuous improvement, and active team involvement throughout the development process.