Project Planning Phase

A structured project plan was crucial to manage time, resources, and tasks effectively. The development was organized using Agile principles with short iterative cycles and weekly feedback reviews.

**Gantt Chart (Outline):**

| **Milestone** | **Duration** | **Team Involved** |
| --- | --- | --- |
| Problem Identification & Review | Week 1 | All members |
| Dataset Collection & Curation | Week 2 | Data Engineers |
| Preprocessing Pipeline Setup | Week 3 | Image Processing Team |
| Model Architecture Selection | Week 4 | ML Engineers |
| Model Training & Optimization | Weeks 5–6 | ML Engineers, QA Team |
| UI Design & Integration | Week 7 | Web Developers |
| Testing & Performance Analysis | Week 8 | Testing & DevOps |
| Documentation & Reporting | Week 9 | Technical Writers |

This plan ensured accountability and balanced workloads across team members.