Project Timeline (Wed → Sun)

Day 1 - Wednesday (Today)

Goal: Dataset ready, preprocessing pipeline started.

Member 1 (Dataset Manager)

- Download dataset, check integrity, remove corrupted/mislabeled files.
 (Deadline: tonight)
- Provide folder structure to the whole team.

Member 2 (Preprocessing Lead)

- Start resizing, normalization code.
- o Test 2–3 augmentation strategies on sample images.
- Share augmentation results with team by tonight.

• Member 6 (Documentation Lead)

- Create shared Google Doc/Notion page for project notes.
- o Add dataset description, project goal, and initial plan.

Day 2 – Thursday

Goal: Preprocessing finalized, models selected & ready for training.

- Member 1 & 2: Finalize preprocessing pipeline (train/val/test ready). (Deadline: 3 PM)
- Member 3 (Model Architect)
 - Choose 2 pretrained models (e.g., ResNet50 & MobileNetV2) and 1 small custom CNN.
 - Write model code skeletons. (Deadline: end of day)
- Member 6: Document preprocessing steps, dataset stats.

Day 3 – Friday

Goal: Model training begins.

- Member 4 (Training Lead)
 - o Train ResNet50 & MobileNetV2 with callbacks.
 - o Monitor validation performance & save best models.
- **Member 3**: Support Member 4 with model hyperparameter tuning.
- Member 5 (Explainability Lead)
 - o Prepare Grad-CAM/heatmap code and test on a few images.
- Member 6: Write "Model Architecture" section in the report.

Day 4 – Saturday

Goal: Model evaluation, visualizations, and report drafting.

- Member 4: Final model evaluation → confusion matrix, classification report, ROC curves.
- Member 5: Generate Grad-CAM heatmaps for:
 - Correct predictions
 - Misclassifications
 - Sample from each class
- Member 6: Write "Results & Analysis" section in report.
- All Members: Share findings & figures in shared folder.

Day 5 – Sunday (Presentation & Submission)

Goal: Finalize everything.

- Member 6: Compile final report & slides. Deadline: 12 PM
- All members: Review slides & practice presentation.
- Member 5: Add final visualizations to slides.
- **Member 3 & 4**: Prepare to answer model-related questions.
- Submission: Before 6 PM