**5.Project Planning and Scheduling**

**5.1 :project planning: TrafficTelligence**

A structured approach was followed to plan and execute the **TrafficTelligence** project within a fixed timeline. The tasks were divided into manageable phases to ensure smooth development and timely delivery.

**Project Timeline Overview**

| **Phase** | **Duration** | **Activities** |
| --- | --- | --- |
| **Phase 1: Requirement Analysis** | Day 1 | Understanding objective, defining features |
| **Phase 2: Data Collection & Exploration** | Day 2–3 | Dataset loading, inspection, and visualization |
| **Phase 3: Preprocessing** | Day 4–5 | Null handling, feature selection, date parsing |
| **Phase 4: Model Building** | Day 6–7 | Train/test split, Random Forest model training |
| **Phase 5: Evaluation & Testing** | Day 8 | R² Score, MSE evaluation, basic predictions |
| **Phase 6: Web App Development** | Day 9–10 | Flask backend + HTML/CSS frontend |
| **Phase 7: Integration & Testing** | Day 11 | Connect frontend to backend + manual testing |
| **Phase 8: Report & PPT Creation** | Day 12–13 | Final documentation, presentation preparation |
| **Phase 9: Final Review & Demo** | Day 14 | Dry-run, corrections, and final demonstration |

**✅ Tools Used for Planning**

* **Excel** / Google Sheets for timeline tracking
* **Trello** / Notion for task breakdown (optional)
* Manual daily progress updates