

5.Project Planning and Scheduling

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| Date | 23 june 2025 |
| Team ID | LTVIP2025TMID41942 |
| Project Name | Traffic telligence : advanced traffic volume estimation with machine learning |
| Maximum Marks | 4 Marks |

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 |
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| 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 | R ² 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 | Duration | Activities |
|------------------------------|----------|---|
| 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