

Initial Project Planning

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| Date | 24-06-2025 |
| Team ID | xxxxxx |
| Project Name | Machine learning approach for employee performance prediction |
| Maximum Marks | 4 Marks |

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create a product backlog and sprint schedule

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members | Sprint Start Date | Sprint End Date (Planned) |
|----------|---------------------------------|-------------------|--|--------------|----------|--------------|-------------------|---------------------------|
| Sprint-1 | Data Collection & Preprocessing | EP-1 | Load and understand dataset | 2 | Low | Tanmay | 2025/06/10 | 2025/06/12 |
| Sprint-1 | Data Collection & Preprocessing | EP-2 | Handle missing values, encode categories | 1 | High | Tanmay | 2025/06/12 | 2025/06/13 |
| Sprint-1 | Data Collection & Preprocessing | EP-3 | Correlation & descriptive analysis | 2 | Medium | Tanmay | 2025/06/13 | 2025/06/14 |
| Sprint-2 | Model Development | EP-4 | Train Linear Regression | 2 | Medium | Tanmay | 2025/06/14 | 2025/06/15 |
| Sprint-2 | Model Development | EP-5 | Train Random Forest | 2 | High | Tanmay | 2025/06/15 | 2025/06/15 |
| Sprint-2 | Model Development | EP-6 | Train XGBoost & evaluate all models | 2 | High | Tanmay | 2025/06/15 | 2025/06/16 |

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|---------------|--------------------------------------|--------------------------|--|---------------------|-----------------|---------------------|--------------------------|----------------------------------|
| Sprint-3 | Web Integration (Gradio) | EP-7 | Build Gradio UI for prediction | 2 | High | Tanmay | 2025/06/16 | 2025/06/17 |
| Sprint-3 | Web Integration (Gradio) | EP-8 | Add input validation & output formatting | 2 | High | Tanmay | 2025/06/17 | 2025/06/18 |
| Sprint-4 | Report & Documentation | EP-9 | Prepare documentation & final report | 2 | High | Tanmay | 2025/06/18 | 2025/06/20 |
| Sprint-4 | Report & Documentation | EP-10 | Create video + GitHub upload | 2 | High | Tanmay | 2025/06/20 | 2025/06/23 |