Project Management Portfolio: AI Sales Forecaster

This document showcases the professional project management methodologies and tools used to deliver the "AI-Powered Sales Forecaster & Insights Engine" project from concept to a live, deployed application.

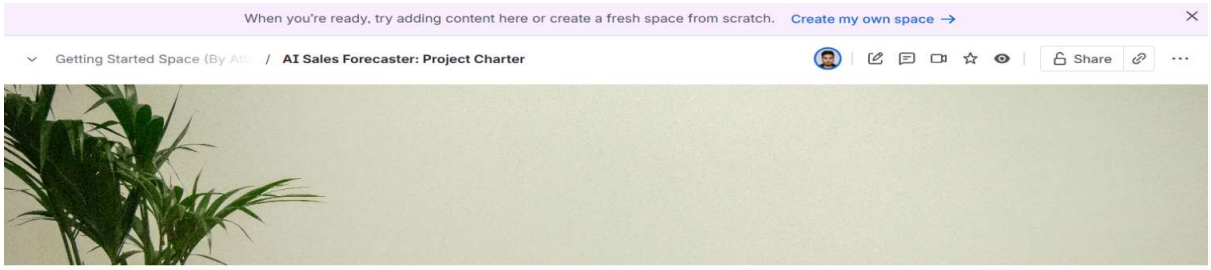
Project Overview

- **Objective:** To build and deploy an end-to-end data science application that provides predictive sales forecasting and automated business insights using Generative AI.
- **Role:** Project Manager & Lead Developer
- **Methodology:** Agile (Kanban)
- **Tools:** Jira, Confluence, Git, GitHub

Phase 1: Strategic Planning

Before any code was written, the project was strategically defined in **Confluence** to ensure a clear vision and scope.

Artifact: The Project Charter This document served as the single source of truth for the project's mission, goals, deliverables, and timeline. By defining what was "In Scope" and "Out of Scope," we ensured the project remained focused and achievable.



AI Sales Forecaster: Project Charter

Owned by Rajat Sharma
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To develop a web-based tool that forecasts sales and provides automated business insights using AI, enabling data-driven decision-making.

Goals & Objectives:

1. Build a reliable time-series forecasting model using Python.
2. Integrate a Generative AI engine to translate complex data into clear, actionable insights.
3. Deploy the solution as an interactive and user-friendly web application.

Scope:

In Scope:

- Analysis of a single CSV sales dataset.
- Implementation of one primary forecasting model (Prophet).
- Deployment as a public web application using Streamlit.

Out of Scope:

- Real-time data processing or database integration.
- User authentication or account management.
- Support for multiple datasets or forecasting models.

Key Deliverables:

1. A fully functional, deployed Streamlit web application with a public URL.
2. A trained and validated sales forecasting model.
3. Project management documentation, including a complete Jira board and this Confluence charter.
4. A public GitHub repository containing all source code.

Stakeholders:

Project Sponsor: ***Rajat Sharma***

Project Manager: ***Rajat Sharma***

Lead Developer: ***Rajat Sharma***

High-Level Timeline (4-Week Sprint)

Week 1 (Sep 8 - Sep 14): Foundation, Data Preparation & Analysis.

Week 2 (Sep 15 - Sep 21): Core Model Development (Forecasting & AI Engine).

Week 3 (Sep 22 - Sep 28): Application Building & UI Development.

Week 4 (Sep 29 - Oct 5): Deployment, Documentation & Portfolio Creation.

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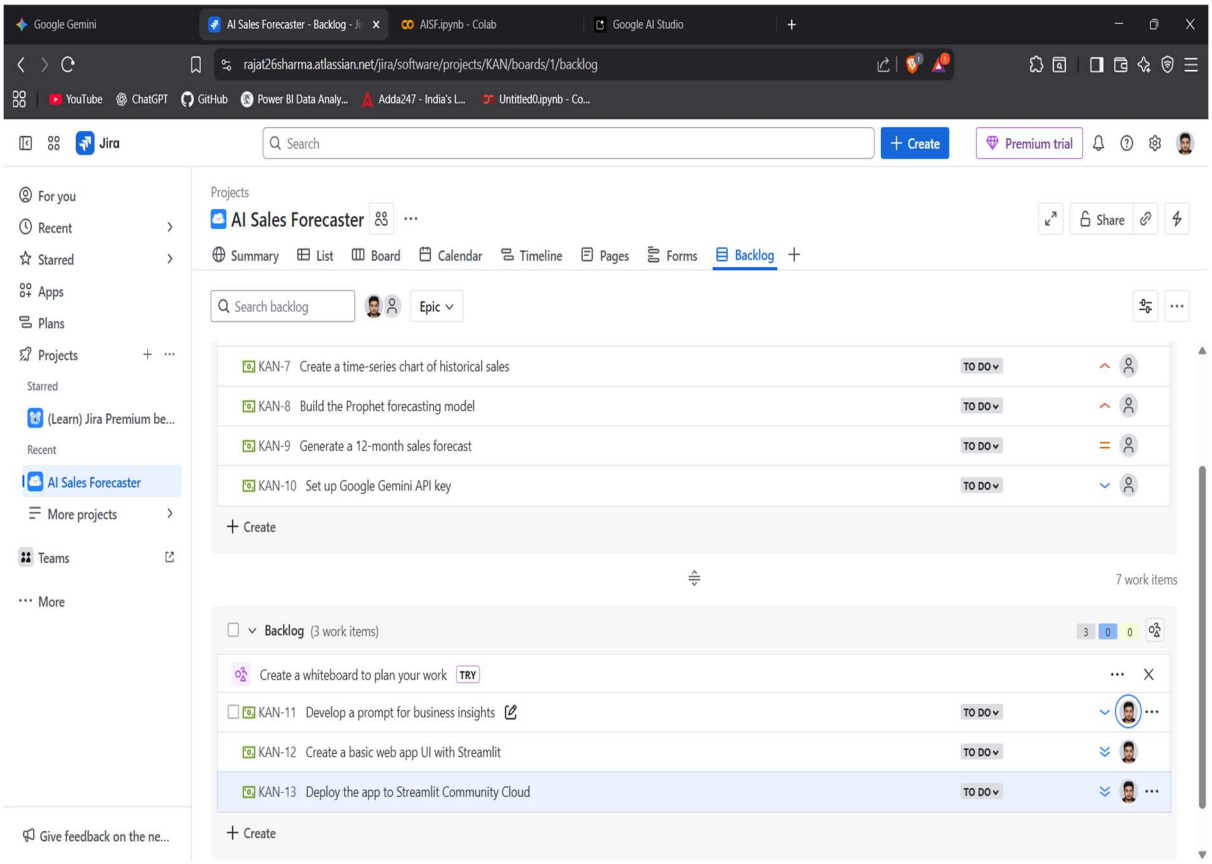
Phase 2: Task Scoping & Prioritization

The project was broken down into manageable tasks (user stories) in **Jira**.

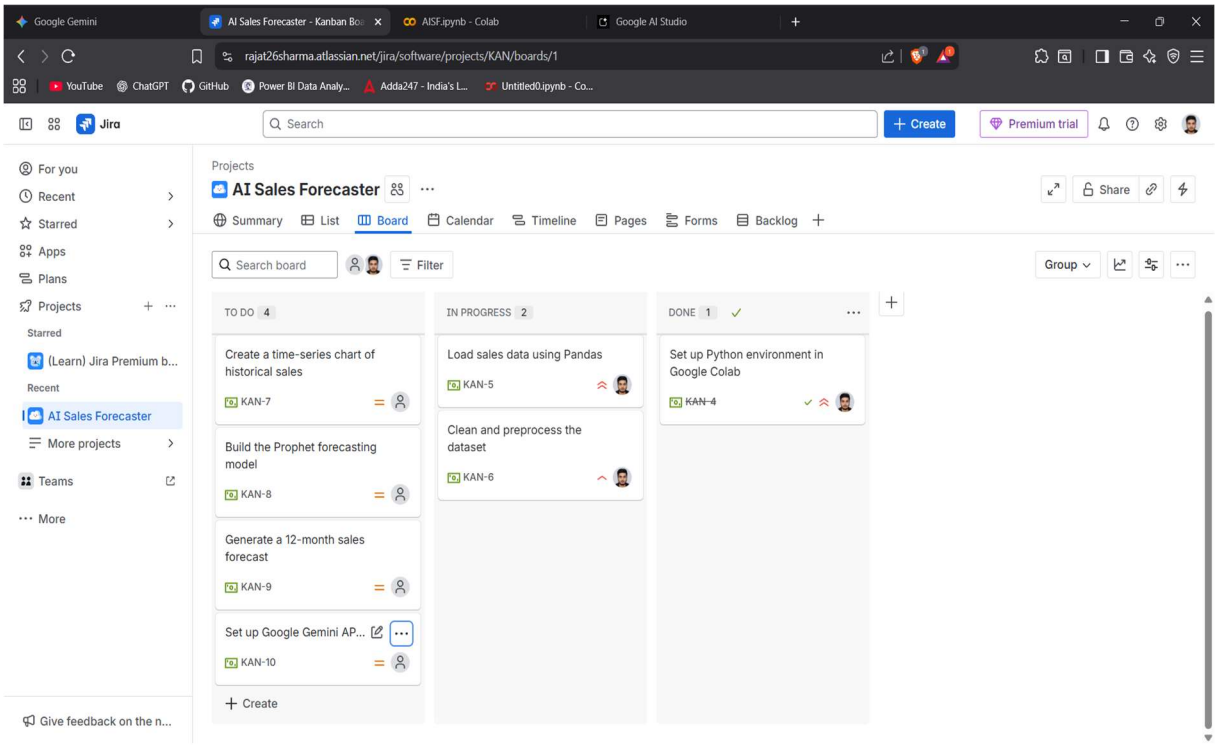
Artifact: The Product Backlog The complete scope of work was captured in the product backlog. Each task was written as a user story to maintain a focus on delivering value. This list was prioritized based on technical dependencies to create a logical workflow.

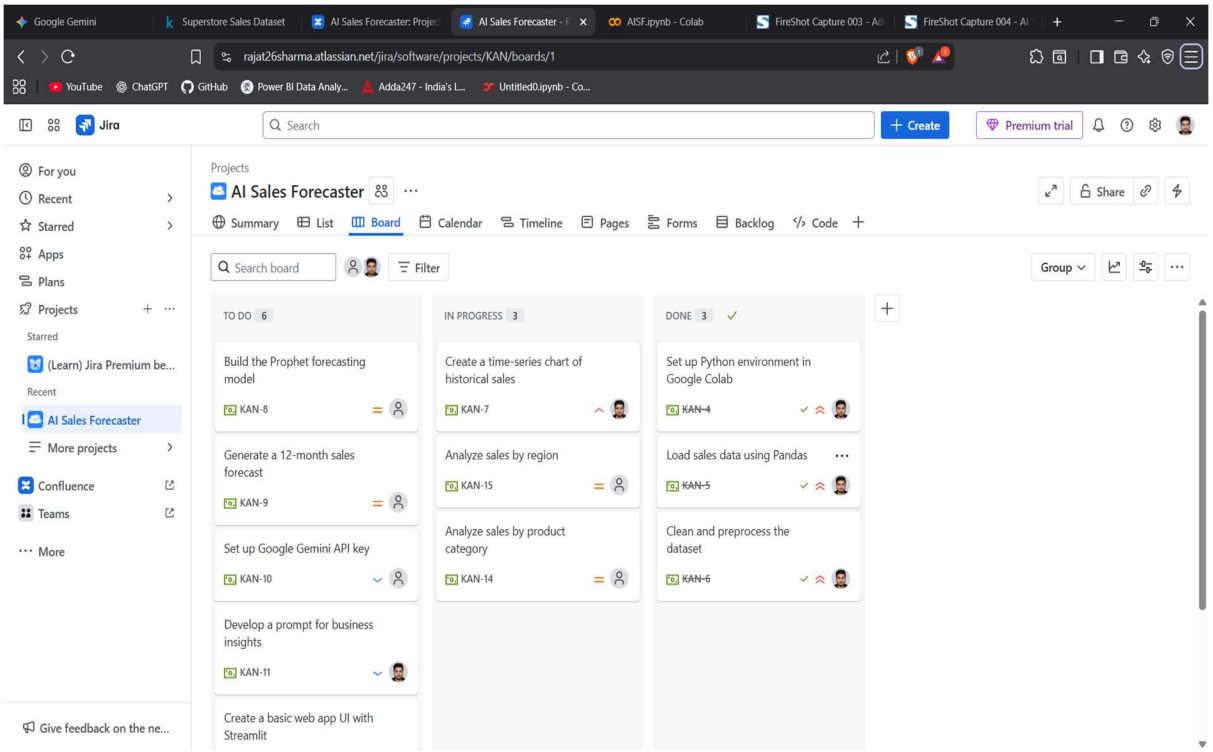


Phase 3: Execution & Progress Tracking

The project was executed in a sprint-based workflow using a **Jira Kanban Board**.

Artifact: The Kanban Board in Action This board provided a real-time, visual representation of the project's status. Tasks were moved from "To Do" to "In Progress" and finally to "Done," ensuring full transparency and accountability throughout the development process.





Phase 4: Successful Delivery

The project was completed on schedule, with all planned features delivered.

Artifact: The Final Project Board The final board, with all tasks moved to the "Done" column, provides clear evidence of the successful completion and delivery of the project.