

# AI SaaS Project Tracker and KPI Dashboard

## Objective

Build a compact but realistic platform to simulate enterprise software delivery tracking. The app allows creating projects, logging milestones and risks, computing KPIs, exporting data for analytics, and producing narrative summaries suitable for stakeholder updates.

## Tech Stack

Backend: Python (Flask)

Database: SQLite (SQLAlchemy ORM)

Frontend: HTML, Bootstrap, JavaScript

Charts: Plotly, Matplotlib, Seaborn

AI Summaries: Hugging Face (google/flan-t5-small) or rule-based fallback

Integration: CSV export for Jira and Power BI

Utilities: Pandas, Dateutil, Requests

## Key Features

- Project Management (CRUD, deadlines, owners, progress tracking)
- Milestone Workflow (Pending, In Progress, Completed, Delayed)
- Risk Register (Severity, Mitigation Plan, Status)
- KPI Dashboard (On-Track %, Delay %, High Risk Count, Avg Completion)
- Exports (Power BI-friendly CSVs and Jira Import CSV)
- AI Summary (Automatic executive-style reports)

## How to Run Locally

1. Create a virtual environment

```
python -m venv .venv
```

```
.venv\Scripts\activate (Windows)
```

2. Install dependencies

```
pip install -r requirements.txt
```

# AI SaaS Project Tracker and KPI Dashboard

3. Initialize database and sample data

```
python init_db.py
```

```
python sample_data.py
```

4. Start the app

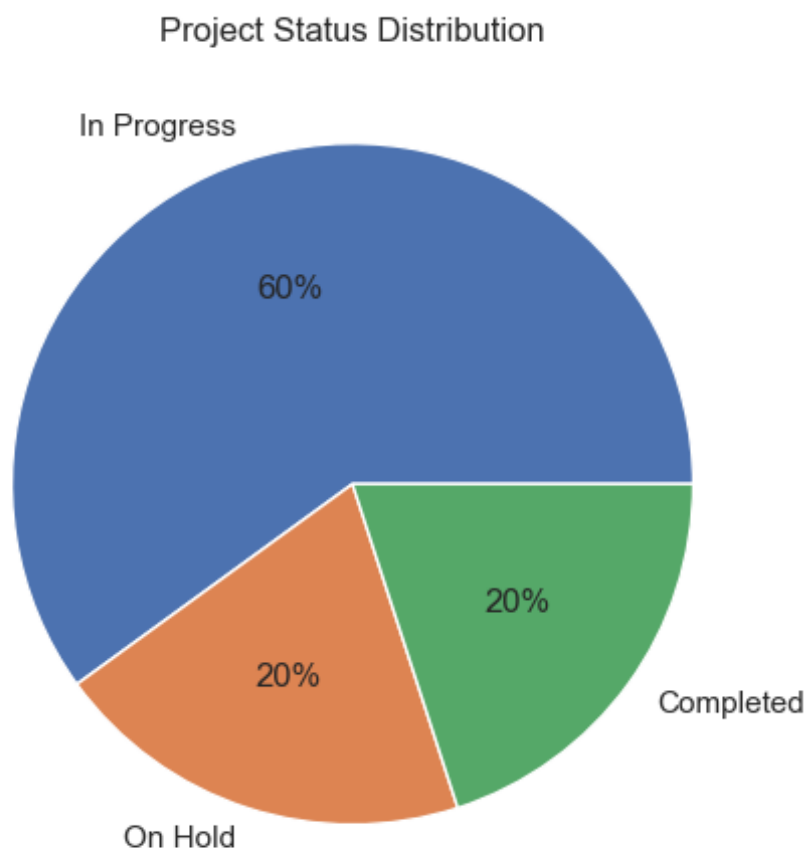
```
python app.py
```

Then open <http://localhost:5000> in your browser.

## Offline KPI Visualizations (Python Equivalent)

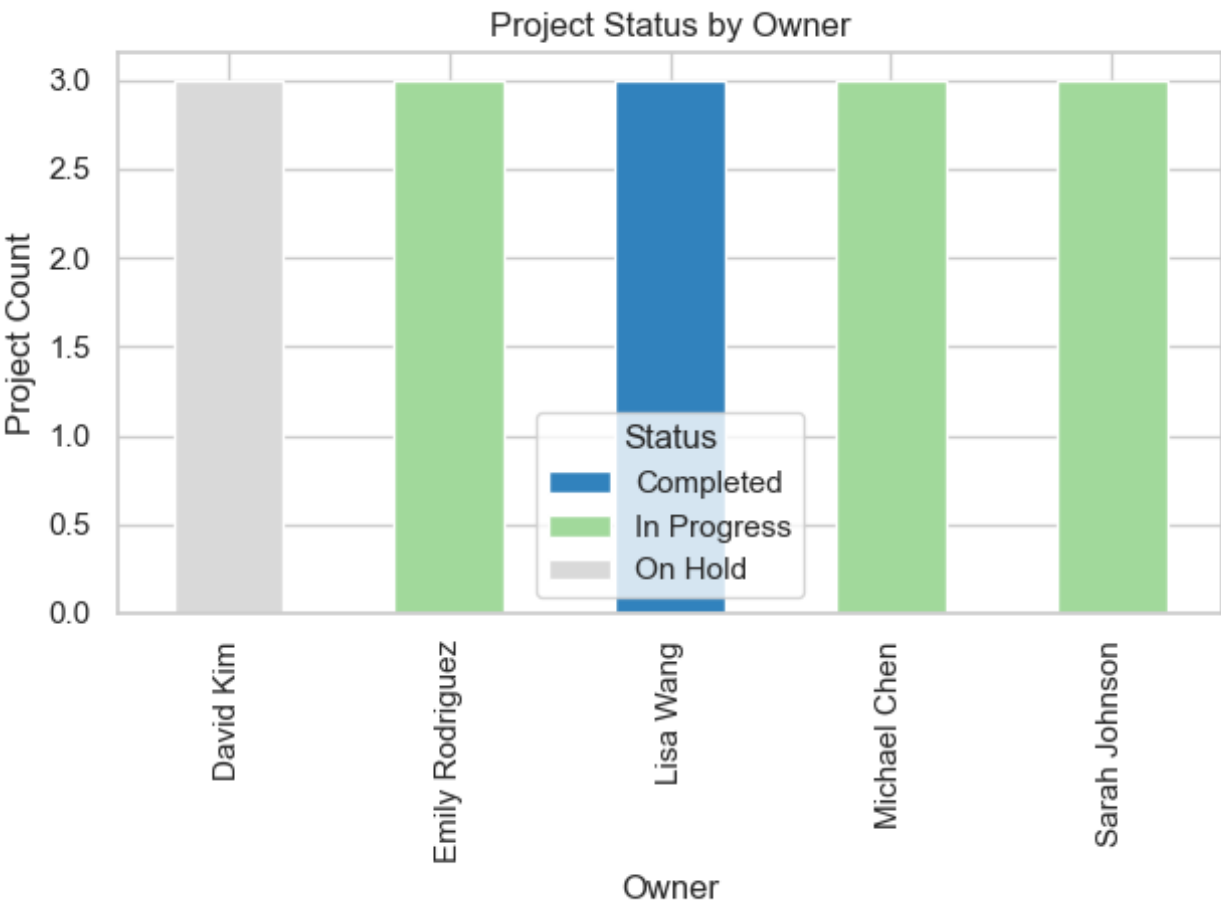
Python-based analytics visualizations simulate Power BI dashboards. The visuals below represent real-time project and risk metrics.

### Project Status Distribution



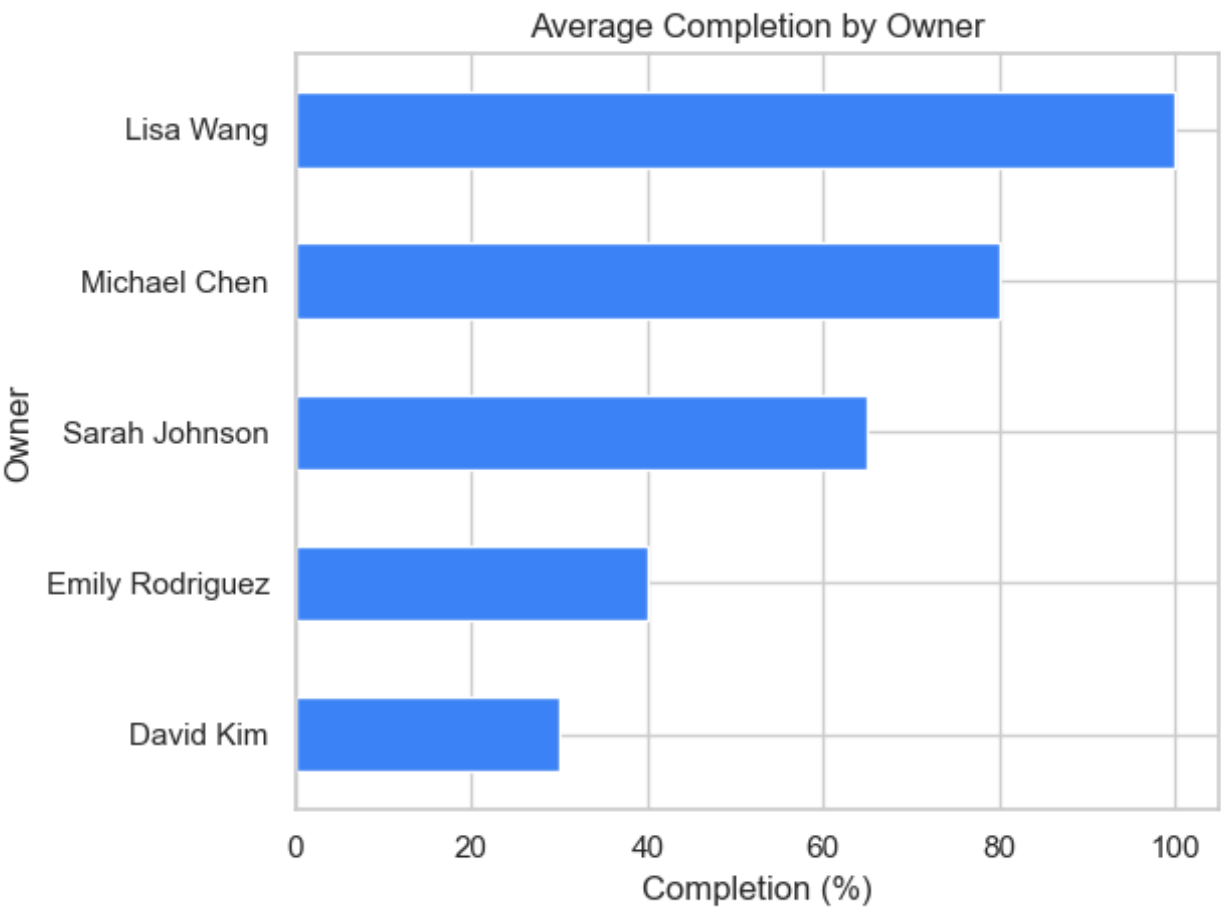
# AI SaaS Project Tracker and KPI Dashboard

Project Status by Owner



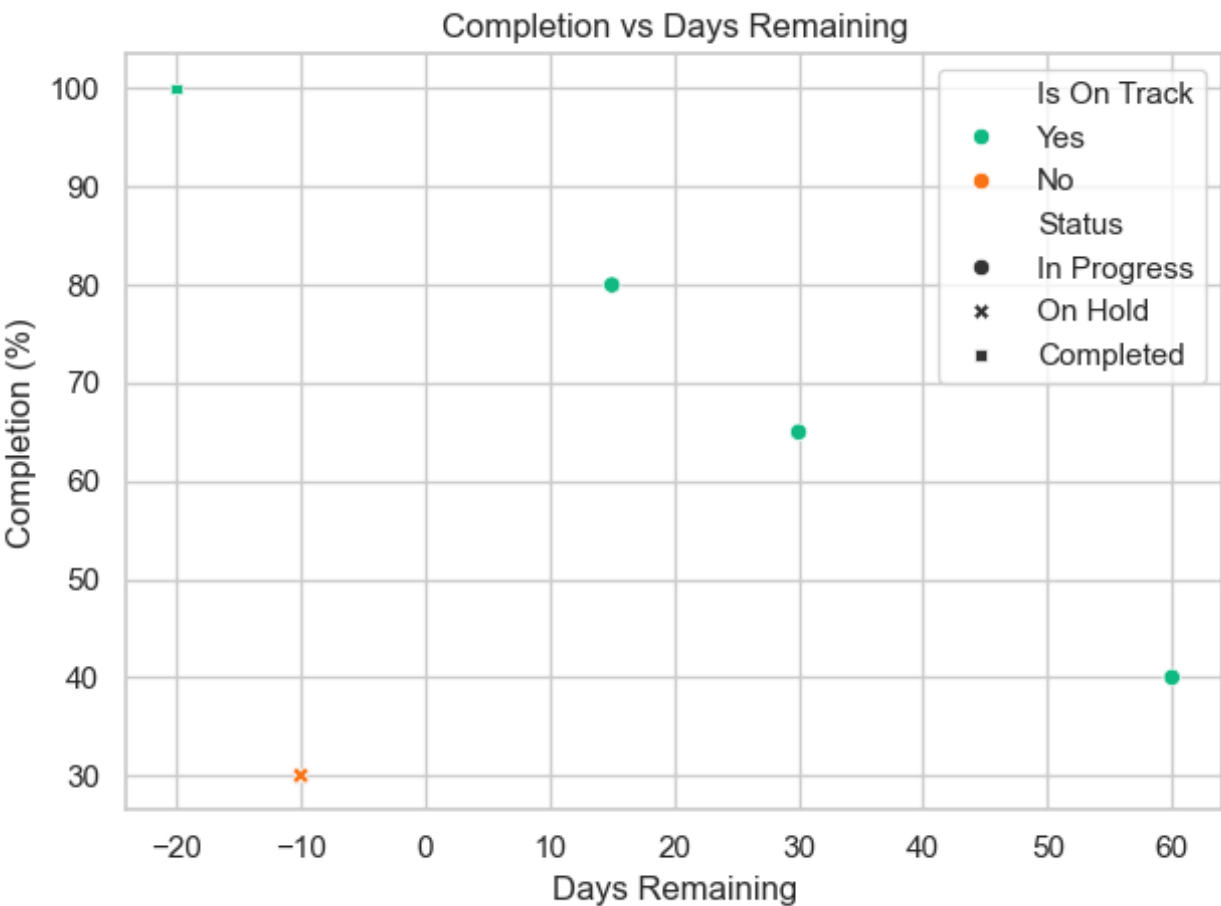
Completion by Owner

# AI SaaS Project Tracker and KPI Dashboard



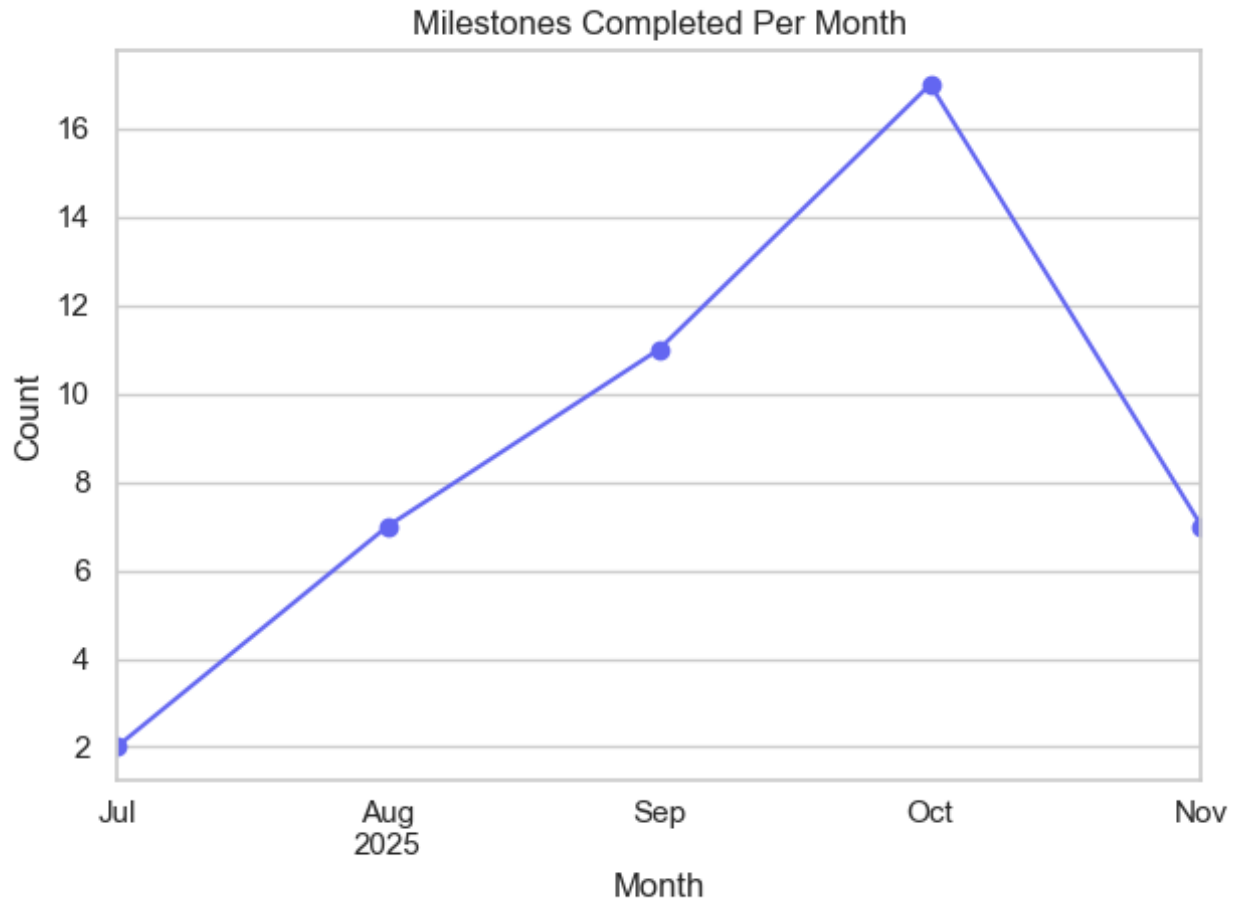
## Completion vs Days Remaining

# AI SaaS Project Tracker and KPI Dashboard



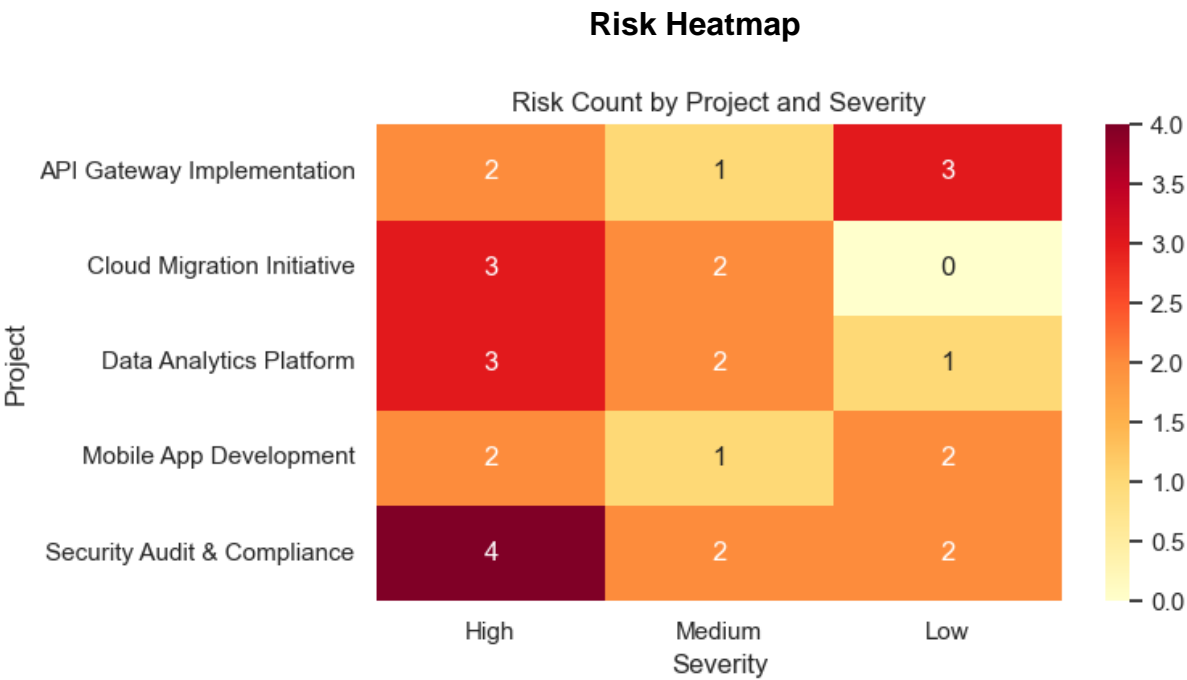
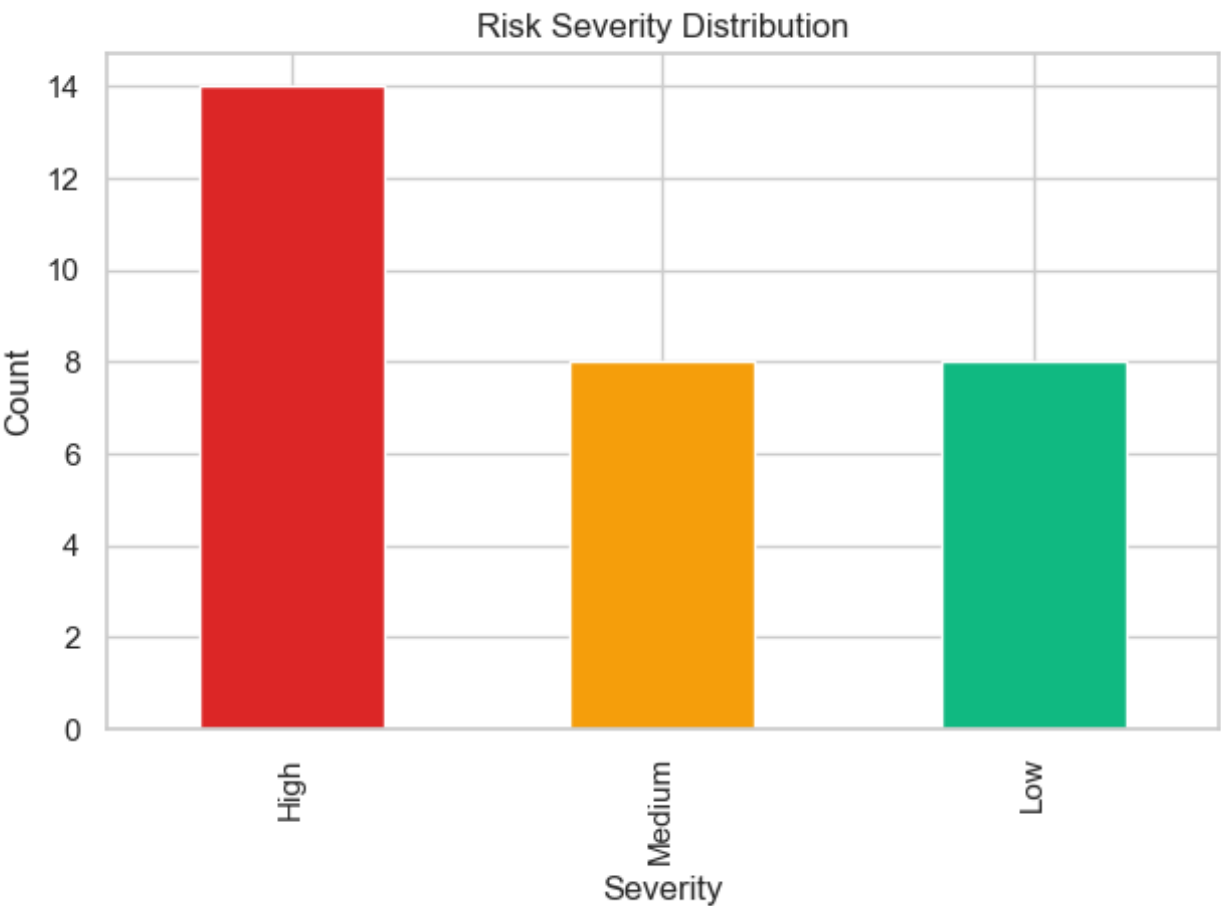
## Milestones Completed Over Time

# AI SaaS Project Tracker and KPI Dashboard



## Risk Severity Distribution

# AI SaaS Project Tracker and KPI Dashboard



## Integrations

# AI SaaS Project Tracker and KPI Dashboard

- Jira Integration: Export normalized project, milestone, and risk tables to CSV for import into Jira.
- AI Summary: Uses Hugging Face FLAN-T5 or fallback logic to create natural-language status reports.
- Power BI Integration: Normalized exports support external dashboards.

## Future Enhancements

- Role-based access control for multi-user teams.
- Real-time notifications for overdue milestones and high risks.
- Live API connectors for Jira and Power BI.
- Enhanced AI for sprint review summaries and stakeholder briefs.

## Conclusion

This project demonstrates full-stack delivery, analytics-driven thinking, and AI-enhanced reporting. It aligns closely with Rubrik's Engineering Program focus on data visibility, process excellence, and rapid iteration.