

Data Science Internship

Individual Weekly Task Documentation

Week #5

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I. My Summarized Log

Encompasses five weekdays from Monday to Friday with 8-hours spent per day

DAY 21

Week 5 Monday 08/11/2025

[08:00 AM - 05:00 PM]

- Reviewed Smart Warehousing system design and assigned deliverables.
- Set sample data (inventory_alerts, rfid_logs, sales) using sample schema.
- Ran initial data ingestion.

DAY 22

Week 5 Tuesday 08/12/2025

[08:00 AM - 05:00 PM]

- Created dashboards:
 - Inventory Stock Trends (line chart)
 - RFID Scan Heatmap (by warehouse zone)
 - Table: Restock Triggered by Sensor Alerts
- Enabled auto-refresh on dashboards and verified live data through mock data generation.
- Integrated Flask API endpoint /sensor-alert to serve real-time inventory data.
- Began frontend setup for custom Chart.js dashboard with Next.js.

DAY 23

Week 5 Wednesday 08/13/2025

[08:00 AM - 05:00 PM]

- Implemented Chart.js component in InventoryChart.tsx using conditional formatting.
- Built dashboard.tsx page in Next.js to display Flask API data dynamically.
- Connected frontend to http://localhost:5001/sensor-alert using fetch.
- Tested dashboard display using mock and live data.
- Coordinated with Al and Web Dev teams for API integration and model updates.

DAY 24

Week 5 Thursday 08/14/2025

[08:00 AM - 05:00 PM]

- Polished frontend dashboard and ensured responsive layout using TailwindCSS.
- Enhanced Flask route logic for more structured JSON response.
- Verified full stack sync.
- Updated shared technical documentation with API summary, dev setup, and RFID diagrams.
- Tested Chart.js implementations for dashboard versatility.

DAY 25

Week 5 Friday

08/15/2025

[08:00 AM - 05:00 PM]

- Finalized dashboards and embedded them into the warehouse insights interface.
- Validated accuracy of sensor-based stock alerts and forecasted demand charts.
- Documented Flask-to-Next.js data flow in shared documentation.
- Performed final UI/UX testing and pushed frontend code to GitHub.
- Submitted Week 5 deliverables: analytics dashboards and documentation updates.

II. Team Task Progress Report

This is for Week 4: Smart Warehousing & Inventory Management

This task is done by team.



