

Sprint End Report

Sprint: S2

Sprint Dates: 13/10/2025 – 26/10/2025

Sprint Goal: Refine data analysis and machine state detection methods, document the interface requirement.

Product Owner: Joaquin Ordieres

Scrum Master: G.Muller

Team Members: Sandini Suraweera, Léo Marquant, Auxence Letellier, Jairo Paez Leal, Lorenzo Niola, Hawazen Hawalah, Tim Haubner, Anna Gyllerup, Tora Fredheim, Gabrielle Muller

1. Sprint Review Meeting Details

Date of Meeting	26/10/2025
Start Time	16:45
End Time	17:00
Duration	00:15
Location / Mode	In-person / <u>Online</u>
Participants	All team members

2. Sprint Review (Demonstration of Increment & Feedback)

Increment / Feature	Description	Demo Status (Done/Partial)	Stakeholder Feedback	Action Items/Owner
Feature 1 – Machine State Detection (Data Layer)	Further development of the working/idle detection logic. Implemented a new proposal with 16 selected variables and creation of an activity_score metric. The Elbow method was applied to determine the optimal threshold.	Done	Good progress — method more stable and interpretable.	
Feature 2 – Interface Requirements Documentation	Created a detailed document defining all interface requirements,	Done	Some requirements might be too complicated/ambitious to fulfill	Detail variables needed from the data layer and expected backend responses. (Owner: All team, supervised by UI/UX team)

3. Sprint Retrospective (Team Reflection & Improvements)

Category	Observations	What Went Well	What Can Be Improved	Action Items / Owner
Process	Clearer sprint scope and good task ownership.	Smoother coordination.	Interface mockups started late, limiting feedback.	Prepare visual prototypes earlier in Sprint 3. <i>(Owner: UI/UX Team)</i>
Communication	Cross-team communication improved compared to S1.	Regular syncs between subteams.	/	/
Tools / Environment	Shared repositories and documentation structured.	Git usage consistently and clear.	/	/

4. Summary & Next Steps

- **Key Takeaways:**

- Data models for machine state detection and representative days are now nearly validated.
- Interface requirements are formally defined, starting to create alignment between teams.

- **Improvements for Next Sprint:**

- Extend detection to 3 machine states (working / idle / intermediate).
- Start API development and connect backend to interface mockup.
- Begin alert generation and visualization logic.

- **Additional Notes / Decisions:**