



XMANAI

MAKING AI UNDERSTANDABLE

Moving from 'black box' to
'glass box' Artificial Intelligence
in Manufacturing

Newsletter #9 - February 2024

The XMANAI platform and tools package

The XMANAI team is thrilled to announce the release of the much-anticipated Final Version of the XMANAI Platform. The last iteration marks a significant milestone in our journey towards revolutionizing the way AI and XAI (Explainable AI) are integrated and utilized in the manufacturing industry.

Key Enhancements in the Final Version

The Final Version of the XMANAI Platform builds upon the robust foundation laid by the Alpha & Beta Versions, introducing a suite of enhancements, optimizations, and new features, all designed to elevate user experience and expand platform capabilities. Here's a glimpse into what it offers:

- **Advanced Data Collection & Governance Services:** Building on the initial release, the latest version offers more sophisticated tools for data collection and governance, providing higher data quality and compliance with evolving data privacy standards.
- **Enhanced Scalable Storage Services:** The storage services have been upgraded for better scalability and efficiency, catering to the growing data needs of our users.
- **Improved Data Manipulation Services:** With more intuitive and powerful data manipulation tools, users can now handle complex data sets with greater ease and precision.
- **Refined XAI Model Lifecycle Management:** The lifecycle management services for XAI models have been refined for smoother integration and management of AI models (from creation to deployment).
- **Optimized XAI Execution Services:** The execution services have been optimized for faster and more reliable performance, allowing seamless AI-related operations.
- **Expanded XAI Insights Services:** Gain deeper insights with the enhanced XAI insights services, which now offer more detailed and understandable explanations of AI model decisions.
- **Secure Asset Sharing Services Upgrade:** The final platform release now provides more robust and secure mechanisms for sharing assets, enhancing data security and intellectual property protection.
- **Comprehensive Management Services Bundle:** The management services have been expanded to offer more comprehensive tools for platform administration and user management.



Discover our platform now live on our website at <https://xaipd.ai4manufacturing.eu/>. Want to see it in action? Reach out to us and schedule a personalized demonstration! Don't miss out – contact us now to satisfy your curiosity!

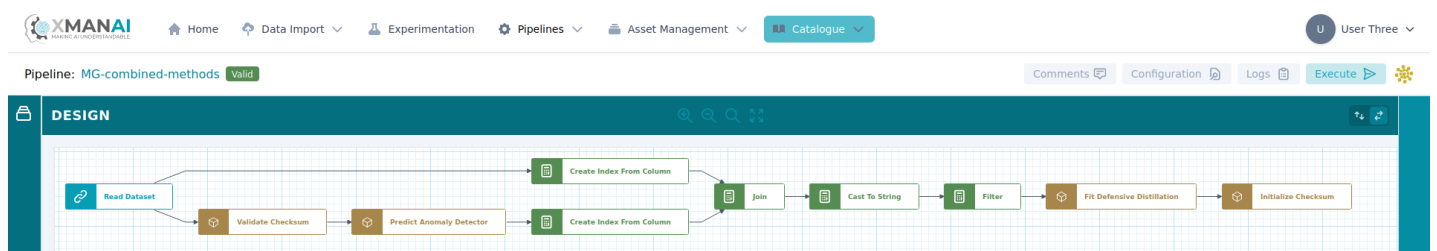


Figure 1: XMANAI Platform

User Interface and Operations

Beyond the access of our functionalities of the platform through centralized and specific interfaces, our industrial pilots are using an on-premise environment and a set of manufacturing apps. The XMANAI platform is fully aligned with the manufacturing needs and idiosyncrasy, acting as a single reference point of access both for AI and for manufacturing value chain stakeholders, and allowing a seamless interoperation with on-premise environments through open standard-based APIs. The on-premise environments enable users to execute XMANAI services in their private clouds, and several manufacturing apps (illustrated bellow) are being developed to facilitate tailored manufacturing intelligence solutions that are solving specific manufacturing problems of our 4 industrial demonstrators.



Dissemination and Project Activities

European Big Data Value Forum (EBDVF) 2023



The XMANAI project proudly sponsored the EBDVF'2023 event, where it showcased the project and its results. Visitors had the exclusive chance to witness a live demo of our groundbreaking platform!

The final General Assembly



Early this week was the final General Assembly of the XMANAI project in Rome, organized by our partner Deep Blue! As the project is coming to an end it is time to evaluate the KPIs and agree on the final steps!

Join us in April 2024 for an exclusive webinar showcasing our cutting-edge platform!
Follow us on social media to stay updated and reserve your spot for this exciting event!

XMANAI - Explainable Manufacturing Artificial Intelligence

Topic: H2020 ICT-38-2020 - Artificial intelligence for manufacturing

From: November 2020 **To:** April 2024

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