PDF / SOLUTIONS®

2025 Users Conference

Deep Dive

PDF Solutions Technical Strategy

Peter Kostka

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02.

ModelOps Next Steps

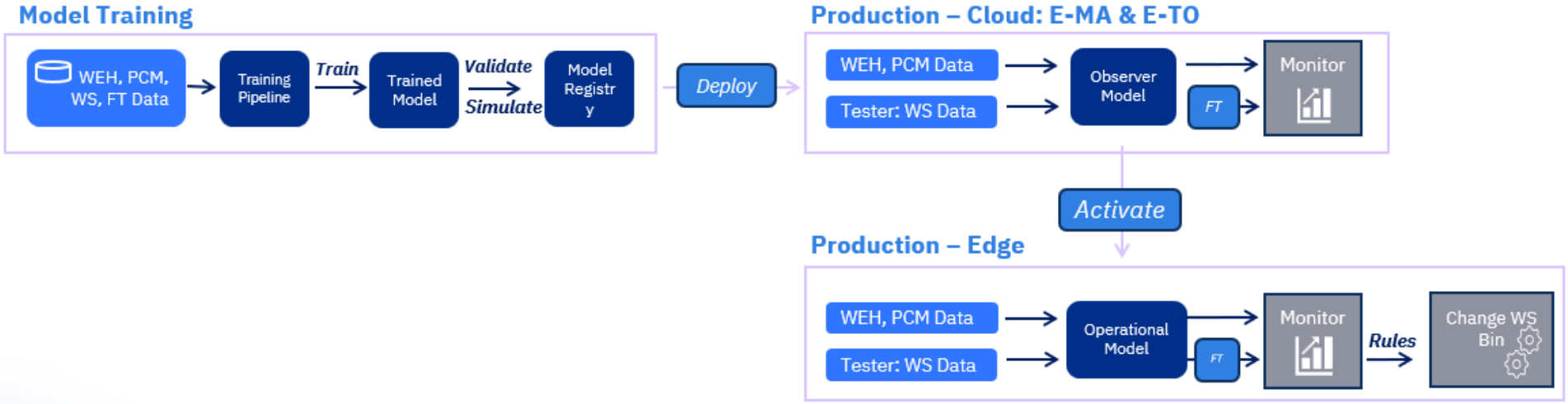
exensio™ Studio AI

Jeff David, PDF Solutions | Ali Ahmadi, Intel

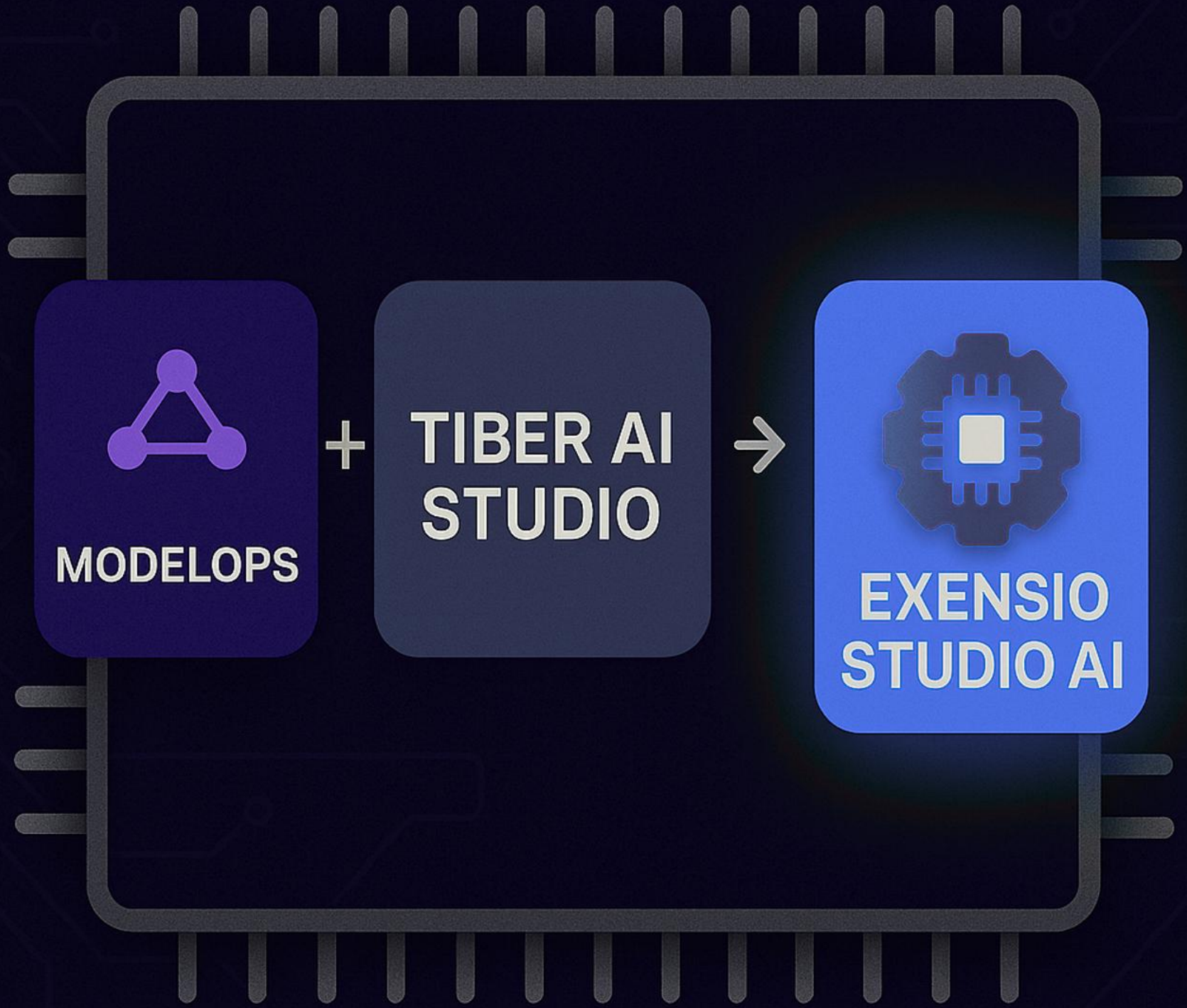
Introduced Last Year - ModelOps

A new product category established for the semiconductor industry

Create, Manage and Control models across their lifecycles



This Year → PDF Solutions announces the addition of Tiber AI Studio from Intel to its suite of MLOPS capabilities


MODELOPS
+
TIBER AI STUDIO
EXENSIO STUDIO AI

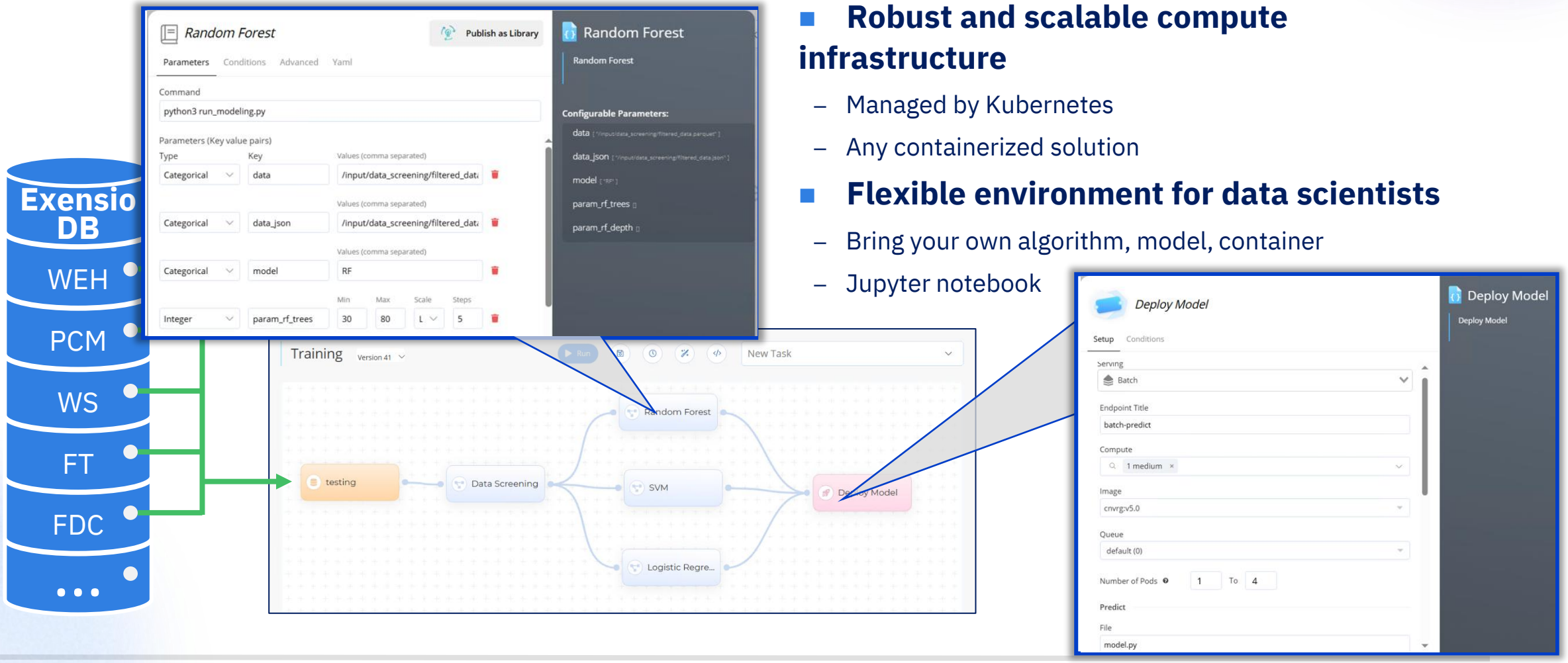
Exensio Studio AI

Create, Manage and Control models across their lifecycles

Single platform for all data in Exensio	Train, deploy, execute, and monitor models	Flexible data science platform	Ability to link multiple semiconductor systems together	Robust and highly scalable
Infrastructure for semiconductor-specific data and use cases	Centrally trained, multiple deployment locations	Bring your own algorithm, build and execute your own models Integrated with Exensio systems	ERP and MES for sourcing data to feed forward to next step Deploy to multiple OSAT's, the testing floor, and edge boxes	Production proven Built on Kubernetes

Modelops + Tiber AI Studio - > Exensio Studio AI

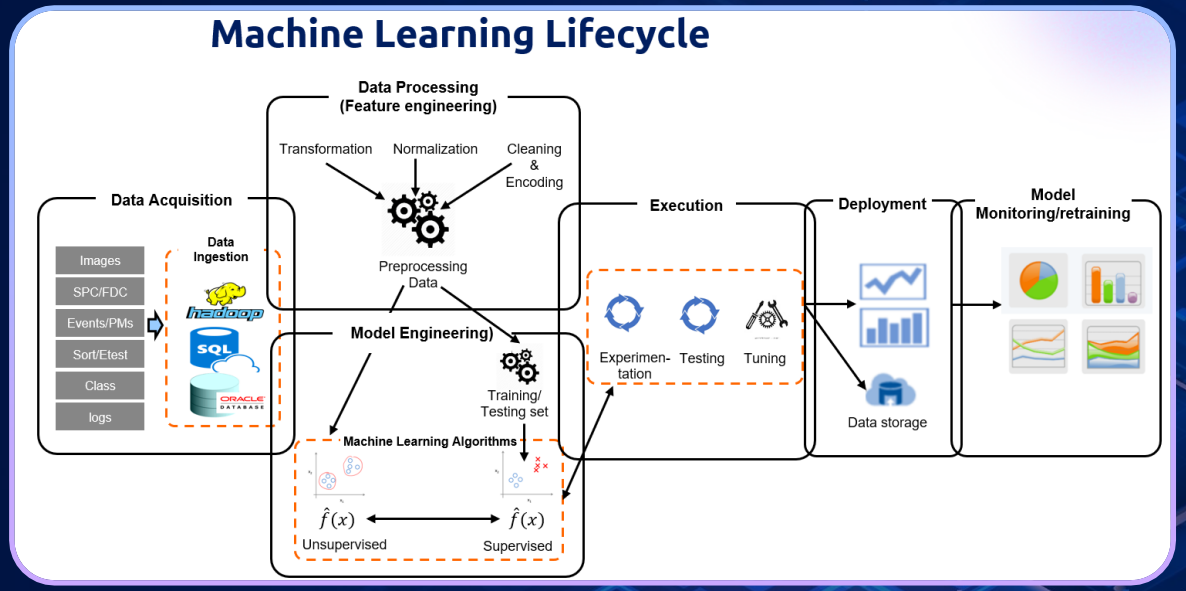
Enables data scientists to easily bring their own solutions to production



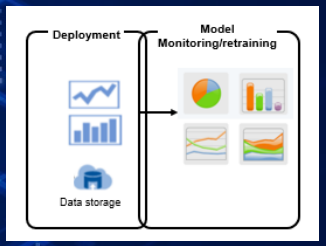
- **Robust and scalable compute infrastructure**
  - Managed by Kubernetes
  - Any containerized solution
- **Flexible environment for data scientists**
  - Bring your own algorithm, model, container
  - Jupyter notebook

Exensio Studio AI – MLOps Platform

- Bring your own container
- Flexible resources: CPU/GPU/Gaudi
- Data integration options



- Seamless deployment
- Save trained models and artifacts
- Support API-based deployment

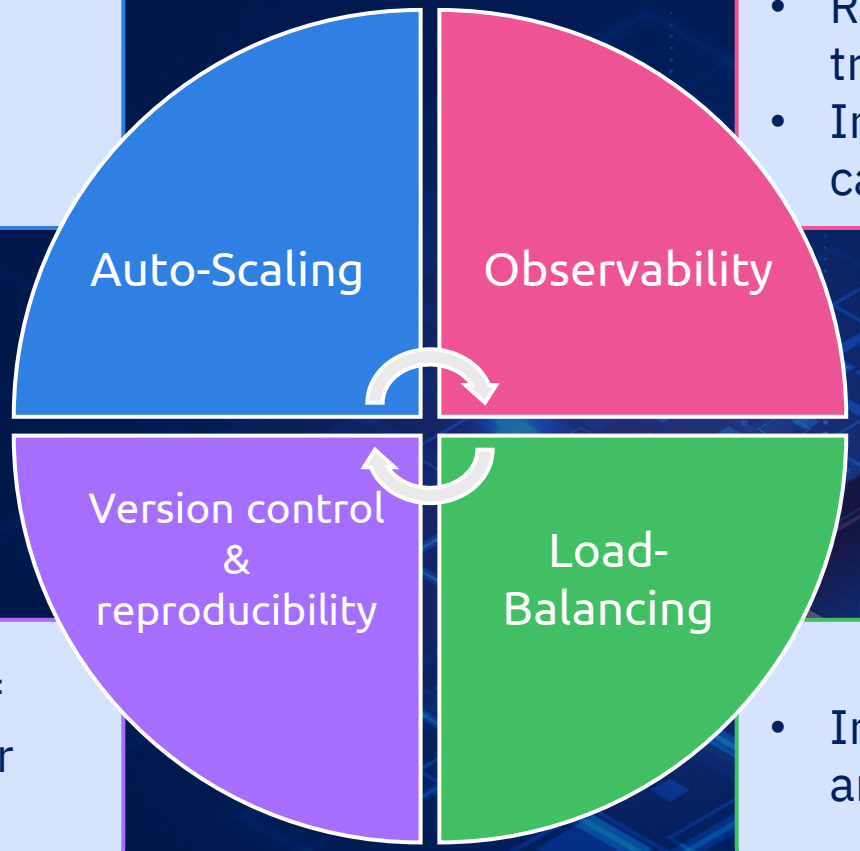


- Experimentation
- Version control
- Collaborate
- AutoML

- Experiment to support model monitoring
- Schedule retraining and redeployment
- Visualize metrics

Exensio Studio AI – Scalability & Robustness

- Dynamic resource allocation based on demand
- Serve models at large scale



- Real-time model performance tracking and drift detection
- In production for various use cases

- Complete lineage tracking of models, dataset and code for reproducibility

- Intelligent request distribution and caching

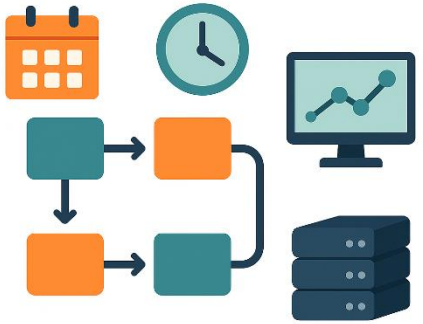
Generalized features

Generalized compute infrastructure

- Supports Spark, Tensorflow, GPU, Python, anything in a container
- Cluster managed by Kubernetes

Auto-ML capabilities

- Run pipelines (flow) with logic
- Schedule jobs
- Basic monitoring
- Deploy models within the cluster



Auto-ML capabilities

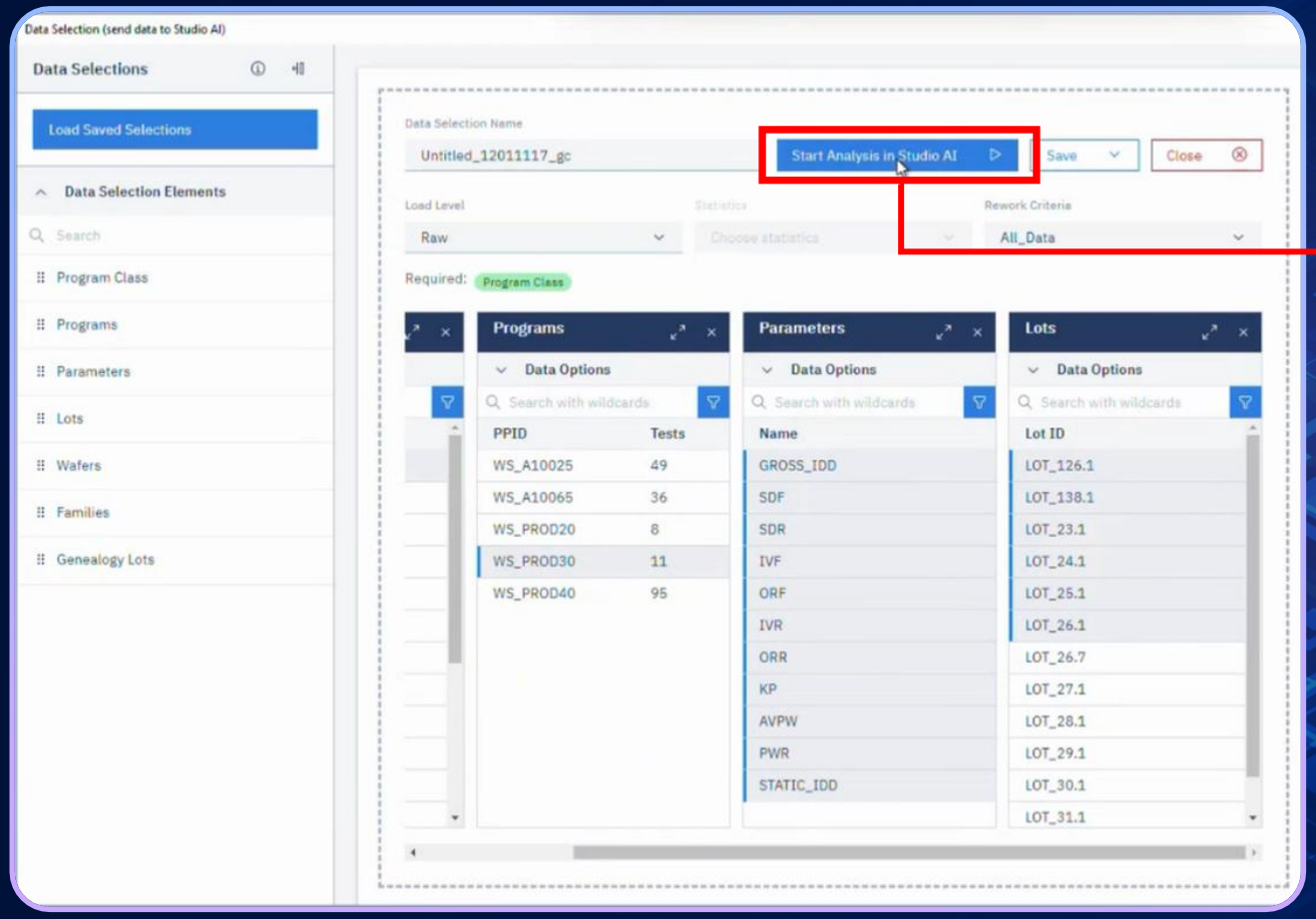
Flexible data science support

- Bring your own algorithm, model, container
- Jupyter Notebook and container environments
- Basic file management
- Clean and intuitive UI

Flexible data science support

Exensio Studio AI - Integration

Train, Deploy, Execute, and Monitor Models

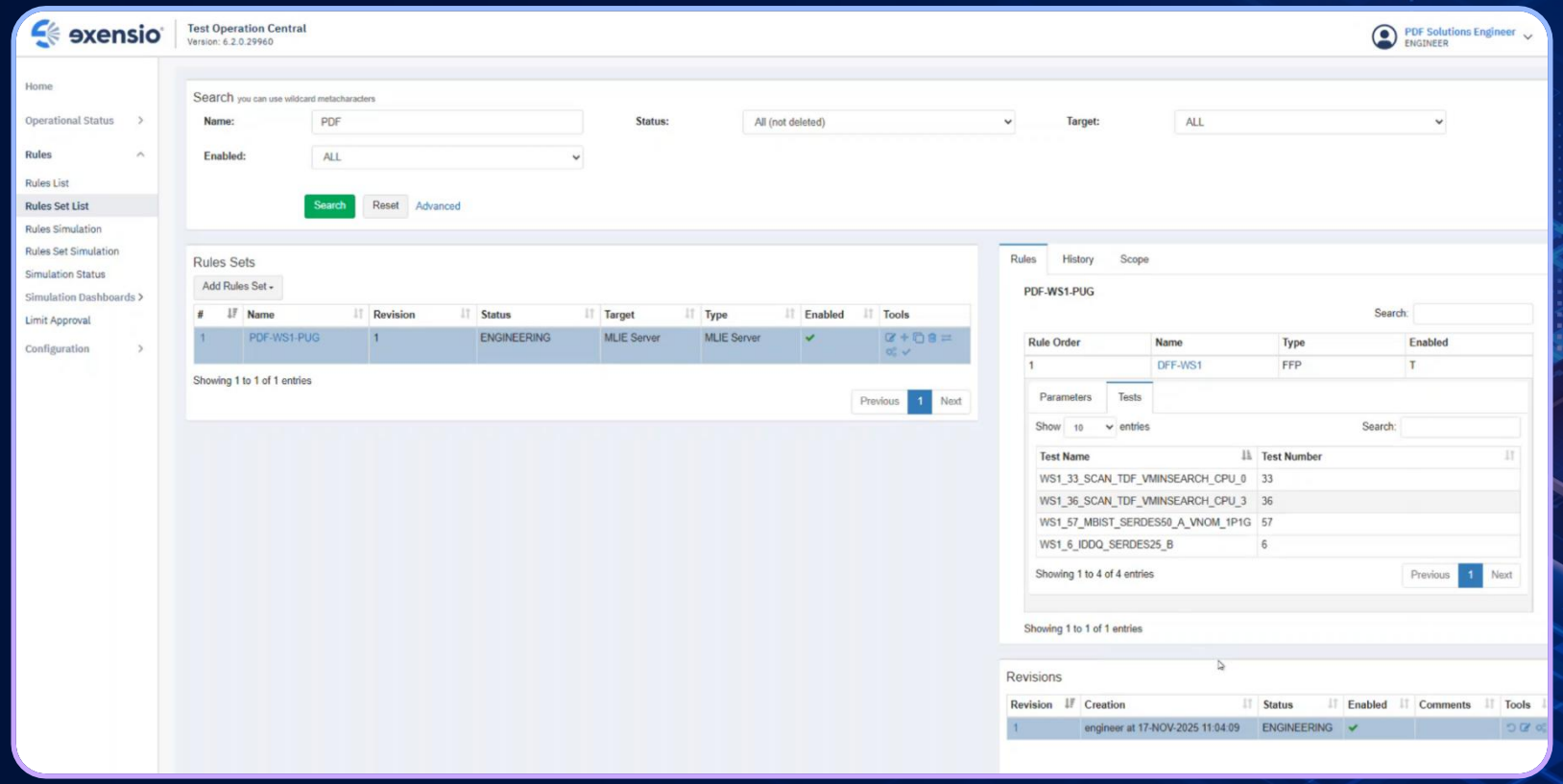


Pull data from Exensio DB to train models in Studio AI

Integrated into Exensio workflows

Exensio Studio AI - Integration

Train, Deploy, Execute, and Monitor Models

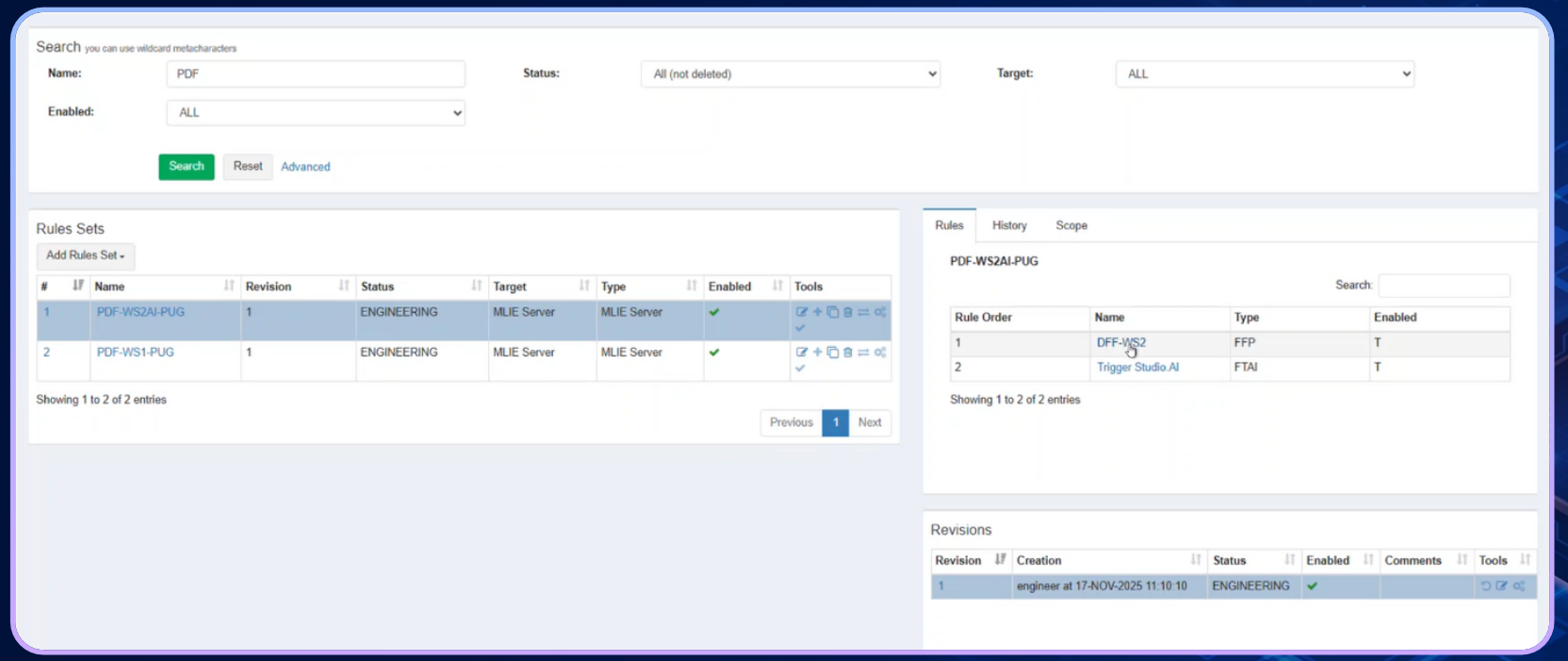


Set up rules for DFF

Integrated into Exensio workflows

Exensio Studio AI - Integration

Train, Deploy, Execute, and Monitor Models

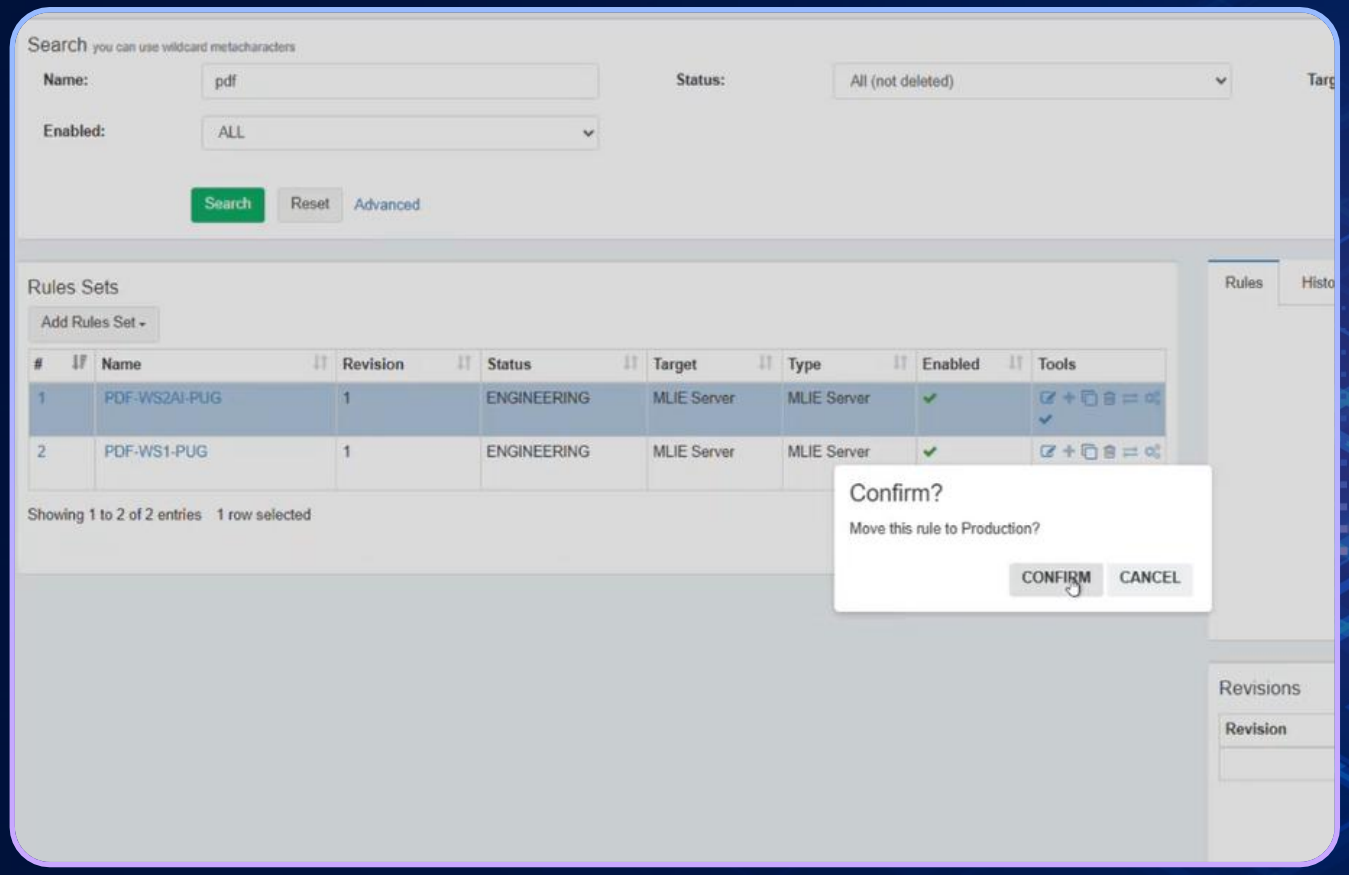


Set up rules for model deployment and execution

Integrated into Exensio workflows

Exensio Studio AI - Integration

Train, Deploy, Execute, and Monitor Models

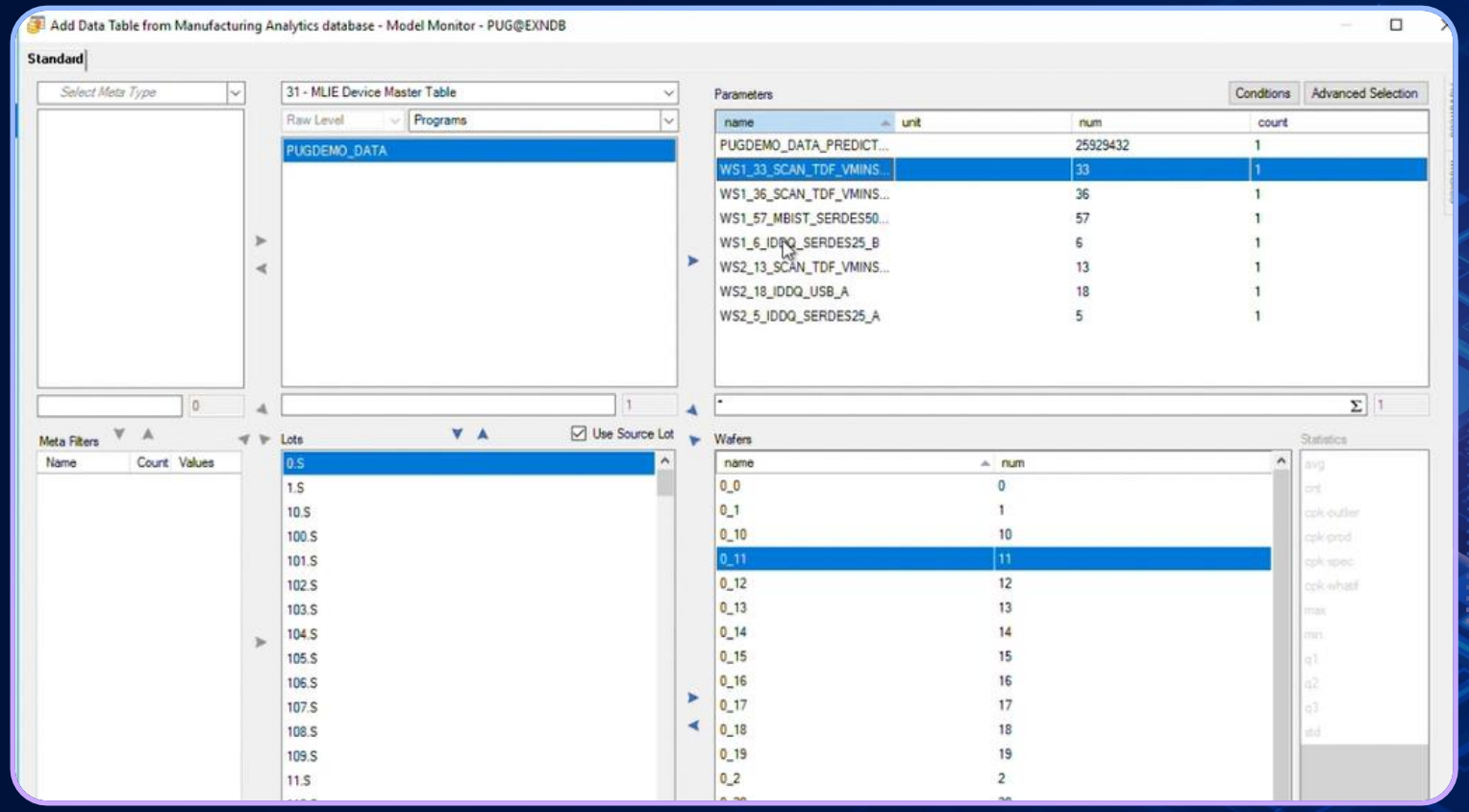


Set up rules for DFF and Model Triggering

Integrated into Exensio workflows

Exensio Studio AI - Integration

Train, Deploy, Execute, and Monitor Models

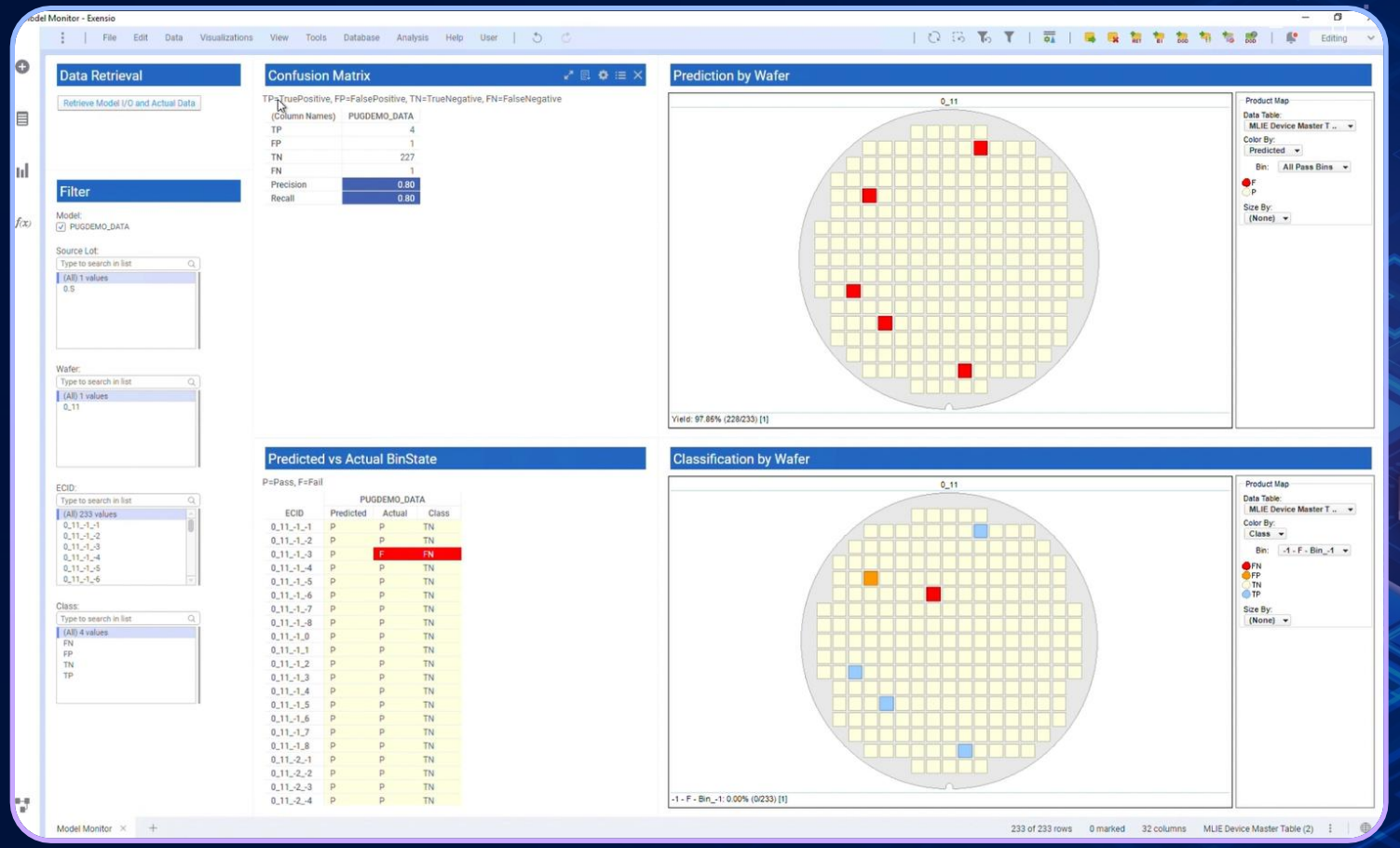


Data staging for model execution and capturing predictions

Integrated into Exensio workflows

Exensio Studio AI - Integration

Train, Deploy, Execute, and Monitor Models



Monitoring template comparing predicted vs actual values

Integrated into Exensio workflows

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Demo

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