



KData Industry Accelerator Sheet

Manufacturing



Accelerating Manufacturing on Databricks

KData helps Manufacturing organizations move from fragmented data initiatives to production-grade, operations-driving use cases on Databricks.

We implement pre-built, industry-specific accelerators that reduce time to value, improve reliability, and unlock measurable outcomes across plant operations, supply chain, quality control, and asset management.

Core Value Proposition

- Move from pilot to production in 90 days or less
- Increase data trust and reliability across pipelines
- Deliver AI use cases tied to revenue and operations
- Align directly with Databricks consumption and scale objectives

Manufacturing Use Case Accelerators

Plant Operations & Asset Management

- Overall Equipment Effectiveness
- Predictive Maintenance (IoT)
- Digital Twins
- Grid-Edge Analytics
- Analyzing Electrical Grid Assets Using Computer Vision
- Automotive Geospatial Accelerator

Quality & Traceability

- Product Quality Inspection
- Managing Recalls with Barcode Traceability on the Delta Lake
- On-Shelf Availability

Supply Chain & Inventory

- Fine-Grained Demand Forecasting
- Supply Chain Distribution Optimization
- Safety Stock
- Scalable Route Generation
- Survival Analysis & Lifetime Value

Customer Intelligence & AI

- LLMs for Knowledge Base Q&A Agents
- Customer Entity Resolution
- Computer Vision Foundations

Key Benefits

- **Accelerated Time to Value:** Pre-built accelerators reduce development cycles and enable faster deployment of high-impact use cases
- **Production-First Delivery:** Focus on delivering fully operational solutions, not prototypes or isolated models
- **Scalable Databricks Architecture:** Built on best practices including medallion architecture, pipeline reliability, and governance
- **Reduced Delivery Risk:** Proven frameworks, reusable components, and structured implementation approach
- **Cross-Functional Impact:** Connects data, AI, and business functions across fraud, risk, compliance, customer operations, and finance
- **GenAI and Advanced Analytics Ready:** Seamless integration of LLMs, forecasting models, and real-time analytics into existing ecosystems

Key Outcomes

- Operational Efficiency
- Asset Uptime & Reliability
- Supply Chain Resilience
- Quality & Compliance
- Faster Decision-Making
- Databricks Platform Growth

- ESG Performance Analytics
- Cyber Analytics (Splunk Connector)

How KData Delivers

Each accelerator is implemented using a production-first framework:

1. Use Case Qualification
Focus on high-impact, achievable outcomes
2. Databricks Architecture Alignment
Medallion architecture, governance, performance optimization
3. Accelerator Deployment
Pre-built models, pipelines, and frameworks
4. Production Deployment
End-to-end delivery: ingestion → transformation → serving layer
5. Adoption & Scale
Monitoring, optimization, and expansion

Why KData

- Deep specialization in Databricks implementations
- Proven ability to move real workloads to production
- Strong alignment with Databricks AEs and co-sell motions
- Experience in manufacturing, industrial operations, and data-intensive environments