Kalicharan Mahasivabhattu

Director of Data and AI | Enterprise Data Platforms | AI Strategy | Data Governance | Digital Transformation

Location: Hyderabad, India

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Professional Summary

Data and AI leader with 23+ years of experience shaping enterprise data strategy, AI enablement, GenAI adoption, data governance, platform modernization, and digital transformation across global regulated environments. Proven ability to lead data and AI portfolios across strategy, operating model, platform delivery, responsible AI, data products, governance, compliance, stakeholder alignment, vendor ecosystems, and business adoption.

Executive Capabilities

- Enterprise Data and AI Strategy, AI Portfolio Leadership, GenAI Adoption, Responsible AI, AI Governance, AI Operating Model, Value Realization
- Data Platform Modernization, Data Products, Data Mesh, Data Architecture, Data Engineering, Metadata, Ontology, Master Data Management
- Data Governance, Data Quality, FAIR Principles, Regulatory Compliance, GxP, SOX, Audit Readiness, Risk and Controls
- Executive Stakeholder Management, Business Partnership, Portfolio Prioritization, Vendor Ecosystem Leadership, Change Management, Adoption Enablement
- Cloud Data Platforms, MLOps, DevOps, AI Agents, RAG, LLMs, Analytics, Automation, Monitoring and Observability

Professional Experience

Director, DD&IT Development, TRD Data Assets | Novartis

March 2020 – Present

- Lead enterprise data and AI platform strategy for TRD, enabling digital CMC, lab informatics, scientific analytics, GenAI, AI agents, and data product use cases.
- Shape the data and AI operating model across product ownership, governance forums, architecture alignment, portfolio prioritization, vendor delivery, adoption, and value realization.
- Drive modernization of data platforms and data products across SPINE Explorer, Genedata, metadata, classification, quality, reuse, interoperability, and scalable enterprise adoption.
- Establish responsible, compliant, and audit-ready AI and data controls aligned with GxP, SOX, validation, security, quality, regulatory, and enterprise IT requirements.
- Partner with senior business, scientific, architecture, security, infrastructure, compliance, and vendor stakeholders to align AI and data investments with enterprise outcomes.

Data and AI Leadership Impact

- Define scalable AI agent, RAG, orchestration, automation, and GenAI adoption patterns to improve productivity, knowledge access, and decision support.
- Advance responsible AI practices, governance guardrails, model evaluation, platform controls, and risk management for AI use cases in regulated environments.
- Shape enterprise data platform architecture, data product strategy, metadata standards, interoperability patterns, and governance models to improve reuse and trust.
- Translate data and AI capabilities into business adoption plans, executive narratives, investment priorities, and measurable digital transformation outcomes.

Technology and Domain Expertise

AI and GenAI: Azure OpenAI, OpenAI, Anthropic, LLMs, AI Agents, Agentic AI, RAG, Prompt Engineering, Vector Databases, AI Governance, Responsible AI, Model Evaluation

Data Platforms and Architecture: Data Strategy, Data Products, Data Mesh, Data Governance, Data Quality, Metadata, Ontology, MDM, Python, SQL, Spark, ETL, ELT, Snowflake, Databricks, AWS, Azure

Enterprise Platforms and Controls: SPINE Explorer, Genedata, Dataiku, TetraScience, Collibra, Ataccama, Reltio, Kubernetes, Docker, Git, CI/CD, APIs, Microservices, MLOps, GxP, SOX, Audit Readiness

Global Data Science Manager | Worley

August 2016 – February 2020

Led global data science and AI initiatives across computer vision, deep learning, automation, engineering data management, and operational analytics.

- Built and led applied AI solutions across document intelligence, computer vision, video analytics, safety compliance, image classification, and sketch-to-CAD automation.
- Architected engineering document classification using PyTorch, Keras, Flask, NLP, Word2Vec, and web interfaces to improve engineering information retrieval and reuse.
- Delivered real-time video analytics using OpenCV, CNNs, AWS Kinesis, and stream processing to support operational risk identification and safety monitoring.
- Partnered with data scientists, engineering leaders, safety teams, and business stakeholders to translate AI concepts into scalable operational solutions.

Associate Manager | Accenture

May 2012 – July 2016

- Led engineering data integration, automation, data mapping, and SmartPlant Foundation customization across global EPC and Shell-related engineering programs.
- Improved data quality, interoperability, onboarding, and audit readiness through scripts, diagnostic tools, configuration utilities, and standardized training assets.
- Partnered with engineering, IT, and business teams to convert complex data requirements into scalable digital and enterprise data solutions.

Earlier Career | Cubic Transportation, Intergraph, Dell

2003 – 2012

Held progressive technical and project leadership roles across mobile applications, enterprise engineering platforms, C++ COM/DCOM automation, SmartPlant integrations, product configuration, implementation support, and customer-facing technical services.

Education and Publications

IIIT Hyderabad – Diploma in Artificial Intelligence and Machine Learning, 2017
JNTU Hyderabad – Bachelor of Technology in Mechanical Engineering, 2002
Authored books: *Algorithm Diaries*; *Ultimate Machine Learning using ML.NET*