Sujit Sahoo

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TECHNICAL LEADER | INNOVATIVE SOLUTION ARCHITECT | EXPERT IN AI/ML, DATA ECOSYSTEMS & MLOPS | DRIVING DIGITAL TRANSFORMATION

KEY SKILLS

Core Technical Expertise: AI/ML Model Development, MLOps & CI/CD Pipelines, Data Mesh & Data Lake Architecture, Cloud Infrastructure (AWS, Azure, GCP), Big Data Technologies (Hadoop, Spark, Kafka, Flume), Container Orchestration (Docker, Kubernetes), Predictive Analytics, Database Management (MongoDB, Cassandra, Elasticsearch)

Leadership & Strategy: Solution Architecture, Stakeholder Management, Cross-functional Team Leadership, Agile & DevOps Practices, Technical Roadmap Planning, Risk Management & Compliance, Innovation Strategy

Analytical & Problem-Solving: Data Modeling & Performance Tuning, Systems Design & Analysis, Process Improvement, Business Intelligence & Analytics, Strategic Visioning, Decision-Making

Soft Skills: Mentoring & Coaching, Collaboration & Communication, Continuous Learning & Knowledge Sharing, Creative Problem-Solving, Change Management

TECHNICAL SKILLS

Big Data Technologies: MongoDB, Cassandra, Hadoop, Hive, Pig, Elasticsearch, Spark, Spark Streaming.

Streaming & Messaging Platforms: Kafka, Flume.

Programming & Scripting Languages: Python, Golang.

DevOps & MLOps Tools: CI/CD pipelines, container orchestration, MLOps best practices.

AI Expertise: Traditional AI, Generative AI, Agentic AI.

PROFILE SUMMARY

- Visionary Technical Leader with 18+ years of experience in driving AI/ML innovations and transforming data ecosystems. Expert in architecting large-scale AI/ML solutions, accelerating MLOps adoption, and optimizing digital supply chains.
- Proven track record in modernizing data infrastructure through Data Mesh and Data Lake architectures, achieving 25x system performance gains, and reducing model deployment cycles from one month to under a week.
- Adept at leading cross-functional teams, aligning technical strategies with business goals, and fostering a culture of continuous learning and innovation.
- Passionate about leveraging advanced technologies to deliver measurable business outcomes and drive digital transformation.
- An accomplished Data Architect with strong exposure in understanding the emerging and evolving end user usage models and requirements in Big Data, Hadoop, and Analytics, documenting those usage models and business, technical and user requirements and designing a solutions architecture.
- Demonstrated strengths in delivering advanced analytical capabilities and enriched data to applications that support the organization's operations by identifying existing data gaps, building new data pipelines, and providing automated solutions.
- Skilled in data analytics, data governance and systems management with the ability to analyze business issues and identify key risks/mitigating controls, combined with a pragmatic approach to problem solving.
- Proven track record in operating large data governance programs with hands on knowledge of Cloud based big data frameworks such as data lake, relational, Graph and other no-SQL databases.
- Proactive and goal-oriented people manager with established record of success in leading large teams to drive corporate technology initiatives; flexible and able to adapt quickly to changing business environments.

NOTABLE HIGHLIGHTS

- Reduced emergency replacement incidents by ~15% through the design of IBM's ML-driven Device Health Score, enabling early detection of degrading devices across the global fleet.
- Achieved ~8% savings in capital expenditure in the first cycle by architecting an enterprise-wide device right-sizing strategy that aligns compute capacity with actual persona and workload needs.
- Improved fleet stability by ~12% by developing predictive analytics models to identify at-risk devices 30–60 days earlier, enhancing employee productivity and reducing digital friction.
- Achieved a 75% productionization rate for ML projects, surpassing Gartner's 53% standard, by devising a comprehensive MLOps framework that standardized processes and reduced model deployment time from one month to under a week.
- Enhanced on-time deliveries and minimized supply chain disruptions through the development of predictive order stages, order health monitoring, and global distress order management tools.
- Accelerated go-to-market timelines from 4-6 weeks to a few days by engineering no-code/low-code ML platforms and implementing CI/CD/CT pipelines, advanced model observability, and champion-challenger deployments, resulting in 25x system performance gains for high-volume applications.
- Modernized enterprise data architecture for faster analytics and actionable insights by championing Data Mesh and Data Lake initiatives.
- Fostered a culture of experimentation, continuous improvement, and knowledge sharing by building and mentoring cross-functional teams, developing an internal AI/ML curriculum, coaching hackathon participants, and supporting leadership development programs.
- Enabled an internal persona based order tracking tool to proactively mitigate sales and operational issues by creating and routing workflows to respective team. Which improved the CSAT by 2%.

PROFESSIONAL EXPERIENCE

Product Engineering Lead: IBM, Bangalore, India: June 2025 – Present

- Architected IBM's unified Device Health Score framework using sensor data, battery patterns, emergency events, age & usage.
- Established a proactive device-risk engine projected to reduce emergency replacements by ~15%.
- Built persona intelligence models distinguishing technical vs non-technical users with >93% accuracy.
- Developed the enterprise-wide device right-sizing strategy (CPU/GPU/RAM), expected to cut procurement overspend by ~8%.
- Enabled capital planning teams with predictive upgrade recommendations, targeting ~6–9% cost optimization YoY.
- Improved fleet readiness scoring, resulting in expected 10–12% reduction in productivity-impacting device failures.

Solution Architect Consultant: Dell International Services Pvt. Ltd., Bangalore, India: Nov 2018 – May 2025

- Enhanced operational efficiency by directing end-to-end solutioning for digital supply chain projects, leveraging AI/ML and data-driven analytics.
- Accelerated ML deployment through enterprise-wide MLOps adoption, bridging the gap between experimentation and production.
- Ensured technical roadmaps aligned with business priorities by collaborating with senior stakeholders and external vendors for risk mitigation and compliance.
- Achieved greater agility and scalability by integrating modern data architectures, such as Data Lakes and Data Mesh.
- Reduced time-to-market for predictive models by pioneering an AI/ML workbench.
- Improved data processing times by 25x through the redesign of legacy pipelines for mission-critical operations.

Principal Software Engineer (Solution Architect): Dell International Services Pvt. Ltd., Bangalore, India: Jul 2015 – Nov 2018

- Enhanced supply chain performance and visibility by leading solution design for predictive order stages, order health checks, GOV 2.0, and global distress order management.
- Strengthened system integration across Dell's supply chain by implementing large-scale solutions.
- Elevated team expertise by providing technical mentoring on data technologies such as Cassandra, Hadoop, and Kafka.

Software Development Advisor (Technical Architect/Team Lead): Dell International Services Pvt. Ltd., Bangalore, India: Aug 2011 – Jun 2015

- Successfully delivered complex integration projects (AOO, GOV 1.0) across multiple supply chain segments.
- Maintained high-quality deliverables and adhered to strict timelines while overseeing distributed development teams.

Senior Consultant (Team Lead): Capgemini India Pvt. Ltd., Mumbai, India: Jul 2010 – Aug 2011

- Enhanced project outcomes for Telecom Italia through efficient technical solutioning, coding standards, and effective team coordination.

Consultant (DB Developer), GE India, Bangalore, India: Nov 2007 – Aug 2008

- Improved system performance by developing in-house research and project management tools, supporting the full SDLC.
- Optimized database efficiency through advanced performance tuning, capacity planning, and issue resolution.

INNOVATIONS & WHITEPAPERS

- Authored ten patents, with six granted by the USPTO:
    - Hyper-segmented personalization using machine learning-based models in an information processing system.
    - Optimized hardware product returns for subscription services.
    - Hyper-segmented personalization using machine learning-based models in an information processing system.
- Presented a white paper on minimizing workspace harassment at the Grace Hopper Summit, demonstrating a commitment to ethical innovation.

ACADEMIC DETAILS

M. Tech in Data Science & Engineering, BITS Pilani, Jan 2023

B. Tech in Computer Science & Engineering, PIET Rourkela, Jan 2003

CERTIFICATIONS

Oracle Certified Associates, Mar 2009

Business Through AI-Powered Supply Chain, Dec 2022

PERSONAL DETAILS

Date of Birth: 01st May 1982

Nationality: Indian

Marital Status: Married

Languages: English, Hindi, and Odia