

# MAHESWAR SAHU

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## PROFILE

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**Senior Data Science Manager** with 14+ years of experience delivering data-driven innovation and architecting large-scale enterprise applications. Combines strong analytical skills and practical understanding of data flow to identify business opportunities and drive measurable outcomes. Skilled in SQL, Python, R, Machine Learning, and GenAI agent model design and high-quality data curation. Proven track record in system design, performance optimization, and advanced debugging. Strong Life Sciences domain knowledge, including expertise in leveraging clinical trial databases (ClinicalTrials.gov) for advanced analytics.

## TECHNICAL SKILLS

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- **Programming Languages & Libraries:** JAVA/J2EE, JavaScript, Spring, Python, R, SQL, PySpark, Pandas, NumPy
- **Databases & Warehouse:** Oracle, MySQL, PostgreSQL, Snowflake, Databricks, Pinecone, Chroma
- **Tools & Platforms:** Datadog, Streamlit, Liferay, Alfresco, Gen AI
- **Cloud Technologies:** AWS, Azure, GCP
- **Life Sciences Open Data Sources:** AACT (ClinicalTrials.gov), PubMed

## SOFT SKILLS

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- Problem-Solving | Resourcefulness | Leadership | Ownership | Business Communication
- Teamwork | Critical Thinking | Strategic Thinking | Time Management | Data Storytelling

## EDUCATION

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**B.Tech, Computer Science & Engineering** – Orissa Engineering College, India | 2006–2010

## ACHIEVEMENTS & IMPACT

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- **Automated data processing** and workflow tasks using Python, reducing manual effort by **30%** and improving operational efficiency.
- Developed and deployed **reconciliation dashboards** to resolve data integrity issues across distributed systems, cutting support ticket volume by **40%**.
- Designed and implemented **interactive KPI dashboards** in Streamlit to enable real-time monitoring, advanced analytics, and data-driven business strategy.
- **Built machine learning models** to implement user and clinical trial site ranking based on application usage, resulting in enhanced user support and improved product adoption.
- Engineered a **Generative AI agent** to centralize application Job Aids, Knowledge Base, and FAQs, resolving L1 user queries and decreasing ticket volume by **10%**.
- Conducted **data architecture analysis** to optimize Alfresco site/content model segregation, resulting in significant cost savings and expedited project delivery.
- Recognized for **innovative workaround solutions** to complex design challenges, preserving revenue and boosting user experience.

## PROFESSIONAL EXPERIENCE

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Cognizant Technology Solutions (11.1 Years)

Domain: Life Sciences / Healthcare

### Senior Manager – Data Science

Sep 2025 – Present

- Built a **data analysis portal** to monitor data flow, detect discrepancies, visualize trends, and predict near-future outcomes.
- Integrated internal SIP systems with **external platforms** to generate deeper business insights and identify new opportunities.
- Applied **machine learning and predictive analytics** to optimize workflows, improve compliance tracking, and enhance decision-making.
- Directed cross-functional teams to deliver **scalable data-driven solutions** across clinical operations, safety documentation, and training modules.
- Partnered with stakeholders to translate complex requirements into actionable data strategies, driving measurable business impact.

### Product Tech Support Manager

Mar 2022 – Aug 2025

- Managed **end-to-end application support** for the Shared Investigator Platform (SIP), ensuring high availability and seamless integration with client CTMS systems.
- Conducted **data flow analysis** using AWS CloudWatch, AppDynamics, and Datadog to proactively detect anomalies and optimize performance.
- Embedded analytics into support workflows, reducing incident resolution time and improving customer satisfaction.
- Collaborated with engineering and product teams to resolve complex issues and deliver continuous improvements.

### Senior Associate – Application Development & Support

Jul 2018 – Feb 2022

- Designed and implemented **technical solutions** for SIP modules, ensuring compliance with evolving business and regulatory needs.
- Led **performance tuning** initiatives across code and database layers, improving efficiency and reducing bottlenecks.
- Supported **API development and integration**, ensuring secure and reliable data exchange across platforms.

### Associate – Projects

Aug 2014 – Jun 2018

- Contributed to the **development and maintenance** of core SIP functionalities, including clinical study workflows and document management.
- Participated in **code reviews, testing, and deployment**, ensuring quality and regulatory compliance across releases.

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Yamaha Motor Solutions India (2.9 Years)

Domain: Telecommunications

### Software Engineer

Dec 2011 – Aug 2014

- Delivered **technical support and development leadership**, acting as both a support engineer and development lead for enterprise applications.
- Collaborated with **clients, business analysts, and architects** to gather requirements and translate them into scalable technical solutions.
- Designed, developed, and implemented **software applications** aligned with business and functional requirements.
- Wrote, unit-tested, and maintained **high-quality, version-controlled code** to ensure reliability and performance.
- Provided **middleware infrastructure support**, enabling seamless application integration across systems.
- Developed and executed **API integrations** with external portals and services to expand system functionality.
- Performed **debugging, root cause analysis, and issue resolution**, reducing recurring incidents and improving system stability.

Software Developer

**Mar 2011 – Dec 2011**

- Developed **core application modules** using Jakarta Struts 1.2, JSP, and Servlets, implementing complex business logic for ERP systems.
- Designed and implemented **data access layers (DAO)** with Oracle RDBMS, including creation and optimization of Oracle procedures and functions.
- Performed **end-to-end software development**, including coding, unit testing, and debugging within RAD IDE, ensuring compliance with business and functional requirements.
- Enhanced **user interface functionality** by implementing JavaScript for UI validation, dynamic components, and improved user experience.
- Collaborated with cross-functional teams to deliver **scalable, maintainable, and high-performance ERP solutions**.

## AWARDS & RECOGNITION

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- **Working as one:** Cognizant TriZetto Life Sciences, Q2 2025
  - Recognized for leading the development of an executive analytics dashboard for Shared Investigator Platform.
- **Emerging Leader Award:** Cognizant Life Sciences, Q4 2018 & Q4 2019
  - Honored twice for demonstrating consistent leadership, team collaboration, and client impact.
- **The Specialist Award:** Cognizant Life Sciences, Q1 2018.
  - Acknowledged for deep subject matter expertise and integrating Training Module to SIP.
- **Digital Super Star Award:** Cognizant Digital Engagement Practice, Q3 2015.
  - Awarded for excellence in digital solution delivery and innovation.
- **Extra Mile Award:** Cognizant Digital Engagement Practice, Q1 2016.
  - Recognized for exceptional dedication, going beyond project expectations to ensure success.