

ARPIT JAIN

Director, Data Engineering, S&P Global Ratings

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EXECUTIVE SUMMARY

- Director of Data Engineering with 21+ years of experience delivering **enterprise-scale** data platforms in financial services and credit ratings environments.
- Proven leader in modernizing legacy systems and building secure, compliant, cloud-native platforms enabling analytics, AI/ML, and regulatory reporting.
- Expertise in data platform strategy and architecture, including AWS, Spark, Databricks, Kafka, Angular, Microservices, NoSQL, Lakehouse, and microservices-based designs.
- Strong background in **Tier-0/Tier-1** system resilience, data governance, quality, lineage, and regulatory & risk data management.
- 7+ years leading global teams, partnering with business, product, and CTO leadership to deliver scalable, high-impact initiatives.
- Built, mentored, and led **globally distributed data engineering teams** across the **US (New York)** and **India (Mumbai and Hyderabad)**, strengthening delivery predictability, engineering standards, and leadership pipeline.

SKILLS

- **Languages:** Python, Java
- **Frameworks:** Spring, Angular,
- **Big Data Tech:** Spark, Kafka,
- **Architecture:** SOA, Microservices, ELT
- **SQL:** Oracle, Postgres
- **NoSQL:** MongoDB
- **Data lake:** Databricks
- **Deployment:** Containers
- **APM:** Splunk
- **Cloud:** AWS

PROFESSIONAL EXPERIENCE

S&P Global Ratings India

Director, Data Engineering | Oct 2018 – Present

- Led the evolution of a data ingestion and extraction platform from a single-practice PDF solution to an **enterprise-scale platform supporting 4 business practices and 600+ sectors and asset classes**, eliminating manual import errors through **automation of thousands of rules, templates, and standardized taxonomy**.
- Directed ingestion and processing of **structured, semi-structured, and unstructured financial data**, including audited financials, forecasts, debt instruments, and legal agreements, supporting mission-critical analytics and ratings products.
- Architected a **metadata-driven, automation-first data platform** spanning data sources, collection rules, templates, taxonomy, and entity modelling, delivering operational efficiencies equivalent to **15 FTEs** by removing manual workflows.
- Established **criteria-driven, multi-source data acquisition** across websites, mailboxes, and feeds, enabling scalable onboarding of diverse document formats with high data quality and consistency.
- Championed **GenAI-powered auto-extraction capabilities**, reducing analyst data availability time from **45 days to 2 hours** and generating productivity gains of **~5 FTEs annually**.
- Built and governed **end-to-end workflow orchestration** with human-in-the-loop review, **RBAC**, and enterprise-grade security, ensuring auditability, compliance, and operational resilience.
- Implemented **data quality analytics, visualization, and reporting**, improving transparency, trust, and issue resolution across enterprise data products.
- Designed **scalable data dissemination pipelines** feeding downstream analytics and ratings platforms, reducing data availability latency from hours to **minutes** and enabling **near real-time access** to critical datasets.
- Established enterprise observability using **Splunk** for infrastructure monitoring, APM, RUM, and log analytics, improving platform reliability and operational visibility.

- Provided technology and architecture leadership across **Angular, Spring Boot, Python, MongoDB, PostgreSQL, Kafka, Databricks Lakehouse, and AWS**, driving **cloud-native scalability, resilience, and cost-efficient operations**.

ADP India

Application Architect | May 2008 – Oct 2018

- Worked as a **Technical Architect** in Human Capital Management (**Vantage product**) and Garnishment Services business domains.
- Led **algorithm design and implementation** to improve the architecture of legacy systems.
- Started **microservices development and containerization**, establishing modern architectural patterns.
- Provided technical expertise and helped build a **developer community of ~200 engineers**.
- Worked with the **Chief Architect** to evangelize technical standards and best practices across business units (coding standards, architecture standards, and adoption practices).
- Hands-on involvement in **development, design, and architecture reviews**.

Tata Research Development and Design Centre (TRDDC), TCS

Assistant System Engineer | Jul 2004 – May 2008

- Started career with Tata Research Development & Design Center (TRDDC).
- Worked on building **highly scalable, platform- and language-independent static program analysis products**.
- Developed **lexical analyzers** using Java for multiple programming languages, including **COBOL, C, and C++**, as part of static program analysis solutions.

PROFESSIONAL AWARDS

- S&P Global Ratings, H1'25 Ratings Impact Award (Innovation) – 2025
- S&P Global Ratings, Peers' Choice Award – Dec 2023
- S&P Global Ratings, Strongest Link – Leadership Award – Q1 2021
- S&P Global Ratings, Strongest Link – Team Award – Q1 2020
- ADP India, DNA Award (ADP Design and Architecture) – 2014
- ADP India, Associate of the Year – 2011

PROFESSIONAL CERTIFICATIONS

- Professional certificate program in GenAI and ML from IIT Madras (Oct 2025-Apr 2026)
- Chief Technology Officer, ISB – 2024
- Databricks Certified Data Engineer Associate – 2022
- Certified SAFe Agilist – 2022
- AWS Certified Solutions Architect – 2022
- Microsoft Certified – MTA: Introduction to Programming Using Python – 2021
- Certified Kubernetes Application Developer (CKAD) – 2020
- Oracle Certified Master Java Enterprise Architect (OCMJEAA) – 2010
- Sun Certified Web Component Developer (SCWCD) – 2006
- Sun Certified Java Programmer (SCJP) – 2004

EDUCATION

- **MCA** – 82%, June 2004
- **B.Sc.** (Mathematics) – 73%, May 2000