VIKAS KUMAR

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Senior Data Engineering Leader | AI & Automation Enthusiast
13+ Years in Data Engineering • Cloud Modernization • Snowflake Architecture • Team Leadership

Senior Data Engineering Leader with experience designing cloud-native data platforms, modernizing legacy systems, and leading high-performing engineering teams. Expert in Snowflake, ADF, Python, SQL, Data Governance, and ETL/ELT architecture.

I specialize in creating scalable, cost-optimized data ecosystems, driving engineering excellence, architecting end-to-end solutions, and introducing automation through AI-driven workflows and n8n. Passionate about transforming raw data into actionable intelligence and mentoring teams to deliver high-quality, production-ready systems.

Core Strength

- Data Engineering Leadership • Solution Architecture • Cloud Modernization
- Data Governance, DQ Frameworks, RLS/MLS
- Pipeline Resilience & Observability • CI/CD for Data
- Performance Optimization & Cost Optimization
- AI Automation & n8n Workflow Engineering
- Stakeholder Management • Road mapping • Delivering at Scale

Technical Expertise

Prime Expertise	Snowflake • Argo Workflows • Azure Data Factory • Python • SQL • Matillion • Informatica
Cloud	Azure • AWS (S3, Glue, Lambda, EC2, RDS)
Databases	Snowflake • PostgreSQL • Oracle • MySQL • Exadata • Sybase IQ • HBase • Elasticsearch • Druid
Tools & DevOps	Git • Azure DevOps • Control-M • Crontab • Shell Scripting • CI/CD Pipelines
Data Visualization & Analysis	Power BI • Tableau • SAP BO • Excel
Others	Unix/Linux • MacOS • Python scripting • Automation pipelines • Performance tuning

Education

Visvesvaraya Technological University	Bachelor of Engineering	2012

Experience

egen[*] **Egen – Engineering Manager / Lead Data Engineer**
Sep 2023 – Present
Merchandising Modernization (Peapod – USA)
- Led end-to-end modernization of legacy merchandising systems (Informix & 4GL) into Azure-native architecture.
- Designed scalable pipelines using ADF, ADLS, and PostgreSQL with automated notification systems.
- Built robust Argo-based workflows integrating SQL Server, MySQL, Python, and YAML.
- Introduced AI-driven automation and n8n workflow engines for internal tooling and operational efficiency.
- Managed a team of engineers, conducted architecture reviews, and ensured timely delivery with minimal business disruption.

Servicing BI (DriveTime – Automotive Finance)
- Automated quality checks, anomaly detection, and resilient alerting for Snowflake pipelines.
- Developed fully automated testing frameworks for DDL and incremental data validation.
- Improved reliability of nightly critical loads and ensured SLA compliance.

IQuanti – Staff Engineer / Team Lead

Apr 2020 – Sep 2023
(Product Team – ALPS)
- Architected enterprise-level Snowflake platform integrating S3, Glue, Lambda, and Matillion.
- Designed RLS, secure data sharing, streaming pipelines, and automated governance frameworks.
- Led a team of data engineers and BI developers; established engineering standards and drove CI/CD modernization.
- Optimized performance, reduced cloud cost, and ensured high availability of data products.

Capgemini – Senior Data Engineer (Goldman Sachs)

Apr 2019 – Mar 2020
- Designed metadata-driven big data ingestion pipelines using Hadoop, Hive, Python, and Sybase IQ.
- Built UI frameworks for configuration-driven transformations and data modeling.

Introlligent **Introlligent Inc. – Data Quality Engineer (Apple Manufacturing)**
Sep 2016 – Apr 2019
- Built real-time Druid POC and governance/reporting systems for global manufacturing lines.
- Managed 40+ data quality KPIs and collaborated with vendors in China.
- Developed automated ingestion pipelines using Hadoop, Hive, HBase, MySQL, and Elasticsearch.
- Delivered dashboards, alerts, and reports used by factory, QA, NPI, and R&D teams.

tcs **Tata Consultancy Services – Data Engineer (Credit Suisse – CRO/CCAR/Lineage)**

Mar 2013 – Sep 2016
- Developed ETL pipelines for CCAR systems using Python, Oracle, PL/SQL, and RDS.
- Automated 10,000+ Control-M jobs and built Python-based automation frameworks.
- Created POCs for regulatory audits, lineage mapping, and data compliance.
- Acted as SME for SCI and Scenario Feeds; led a small engineering team.

ILP Trainer – TCS Internal
- Trained new hires in data warehousing, ETL, KPI modeling, reporting, and cloud fundamentals.
- Built internal case studies, STAR/Snowflake models, and BI universe design.

Activities

- Mentored underprivileged students through CSR programs.
- Organized corporate team-building events and learning programs.
- Created caricature artwork and contributed to TCS office aesthetics.
- Coordinated the large-scale **IT Wiz Quiz** with 2000+ participants.

On-Site Exposure

- Multiple business visits to China for manufacturing data quality, factory collaboration, and pipeline validation.