

Nishanth Kolli

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Professional Summary

- Senior Data Engineer and Data Analyst with 7+ years of experience across banking, e-commerce, and technology sectors, specializing in building scalable, high-performance data solutions that drive business insights and automation.
- Designed and optimized end-to-end data pipelines using AWS Glue, Airflow, Step Functions, and Snowflake, improving data movement efficiency and data reliability for critical financial and risk analytics.
- Skilled in managing large-scale data ecosystems with AWS Redshift, Databricks, S3, and Kafka, enabling real-time processing and ML-driven fraud detection, achieving measurable reductions in operational and financial risk.
- Developed interactive dashboards and analytical models in Amazon QuickSight, Tableau, and Power BI, empowering stakeholders with real-time visibility into KPIs, portfolio performance, and fraud trends.
- Advanced proficiency in SQL and Python for data analysis, transformation, automation, and supporting machine learning workflows within Databricks and Snowflake environments.
- Experienced with ETL and orchestration tools including Ab Initio, Informatica, Alteryx, Glue, and Airflow, ensuring efficient data integration and governance across hybrid cloud platforms.
- Implemented data validation, reconciliation, and performance tuning practices that maintained 99%+ accuracy and improved pipeline throughput across production systems.
- Leveraged AWS CloudFormation, Lambda, and Step Functions for infrastructure automation, and collaborated cross-functionally with Fraud and Risk teams to deliver strategic solutions for fraud detection, financial forecasting, and operational analytics.

Technical Skills

Big Data Stack: Hadoop Ecosystem, Map Reduce, Spark, Hadoop, Databricks, Hive, Pig, Sqoop

Cloud Platform: AWS (EC2, S3, IAM, ELB, CloudFront, Glue, EMR, RDS, Step Functions, Data Pipeline, Athena, Redshift, CloudFormation, Lambda, CloudWatch), Snowflake, Databricks, Azure Data Lake

Databases: Oracle 12c/11g, MS SQL Server, MySQL, Teradata R15/R14

Programming Languages: Python (NumPy, Pandas, Keras, Matplotlib, Scikit Learn), SQL, HiveQL, Shell Scripting, R

Data Visualization Tools: Tableau, Power BI, QuickSight

ETL/Data Warehouse Tools: Ab Initio, Informatica 9.6/9.1, Alteryx, Talend

Operating Systems: Windows, Unix, MacOS

Analytical Skills: Hypothesis Testing, Data Analysis & Visualization, Data Wrangling, Data Mining, Dimensionality Reduction, Cost Optimization, A/B Testing

Version Control & Tools: Git, Maven

Development Methods: Agile/Scrum, Kanban, Waterfall

Machine Learning: Regression Models, Ensemble Learning, NLP, KNN, ANN, CNN, RNN, PCA, Naïve Bayes, Time Series Forecasting, ARIMA, ARIMAX

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Professional Experience

Data Analytics Engineer

Client: First National Bank of Omaha (Remote)

March 2023 – Present

- Designed and automated end-to-end data pipelines using AWS Glue, Airflow, and Step Functions for the Fraud Detection and Risk Analytics teams, improving data movement efficiency and reducing manual intervention by 40% through event-driven orchestration.
- Built real-time streaming pipelines with Kafka to capture transaction and behavioral data, enabling near real-time fraud pattern analysis and accelerating fraud response times by 30%.
- Migrated analytical workloads from Redshift Spectrum to Snowflake, optimizing query execution and reducing compute costs by 25% through efficient data partitioning, clustering, and caching strategies.
- Developed data models and dimensional schemas to support subscriber movement, risk exposure, and portfolio performance tracking, ensuring scalable and high-performance analytical queries.
- Leveraged Databricks with Spark to implement ML-driven fraud and risk scoring models, achieving 90% accuracy in anomaly detection and reducing potential financial losses by 15%.
- Created a data quality and reconciliation framework in Snowflake and Glue to validate incoming financial and customer data, maintaining 99.5% accuracy and ensuring compliance with regulatory standards.
- Partnered closely with Fraud, Risk, and Business Intelligence teams to define KPIs for transaction monitoring, exposure analysis, and customer segmentation—enhancing forecasting accuracy by 15% and decision-making speed by 20%.
- Built interactive dashboards in Power BI and QuickSight providing executives real-time visibility into fraud trends, exposure limits, and portfolio performance, increasing stakeholder engagement and data-driven adoption.
- Conducted SQL, Spark, and Snowflake performance tuning, reducing job runtimes by 35% and optimizing cluster utilization, which cut cloud resource spend by 15%.
- Maintained version-controlled data pipelines and schema changes using Git and Schema Change, ensuring governed, auditable deployments across production environments.

Data Engineer

Amazon Connect, Seattle

June 2022 – March 2023

- Spearheaded BI and data-driven initiatives for Amazon's call routing infrastructure, building KPIs for call handling time, routing accuracy, and customer satisfaction, which increased routing efficiency by 20%.
- Automated reporting pipelines with SQL, Redshift, and Python scripts, cutting manual reporting efforts by 50% and reducing reporting lag by 40%.
- Designed QuickSight dashboards to track agent productivity and call performance metrics, enabling 25% faster operational adjustments and 15% higher agent productivity.
- Built ETL pipelines in AWS Glue and Lambda to streamline call routing data, reducing discrepancies by 25% and improving data reliability for downstream analytics.
- Analyzed large datasets in Redshift to identify call resolution bottlenecks, leading to a 20% improvement in resolution rates and a 10% decrease in call drop-offs.

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- Partnered with customer support leaders to design KPIs around first-call resolution, agent utilization, and call wait times, improving overall customer satisfaction by 18%.
- Deployed scaling solutions using CloudFormation and EC2, increasing data processing capacity by 30% to handle growing customer traffic.

Data Analytics Intern

Design Technologies LLC, New York

Jan 2022 – June 2022

- Architected and managed centralized company databases in MS SQL Server, achieving a 20% improvement in data categorization and accessibility.
- Designed ETL workflows with Alteryx to process CRM (Zoho) data, reducing processing time by 30% and supporting real-time reporting.
- Built Tableau dashboards to track customer engagement and product adoption, leading to proactive resolution of satisfaction drops and a 15% increase in retention.
- Enhanced reporting framework reliability, improving analytics delivery by 30% and fostering confidence in business-critical reports.

Data Engineer

Capgemini

June 2017 – Dec 2020

Client: Orange Business Services (Capgemini), Hyderabad

- Led a team of 5 in redesigning ETL processes using Ab Initio, improving efficiency by reducing ad-hoc request turnaround time by 20%.
- Automated ETL workflows with Ab Initio + shell scripting, reducing manual intervention by 30% and enabling parallelized processing for faster telecom usage insights.
- Built Tableau dashboards to visualize telecom KPIs such as customer churn, call duration, and infrastructure usage. These dashboards helped optimize resource allocation, cutting network inefficiencies by 20%.
- Partnered with business analysts to define performance metrics and data governance frameworks, reducing discrepancies by 25% and ensuring reliable reporting.
- Delivered insightful KPI-based performance analysis for marketing teams, boosting customer retention by 20%.

Data Engineer Intern

Client: HSBC

Jan 2016 – Dec 2017

- Designed and implemented ETL processes using Ab Initio, transforming financial transaction data into business-ready datasets for reporting and compliance.
- Developed data mappings and workflows to integrate structured and semi-structured data, reducing processing errors by 20% and ensuring high-quality outputs.

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- Assisted in performance tuning of ETL jobs, improving runtime efficiency by 15% and reducing load delays in critical reporting.
- Built supporting documentation for ETL workflows, ensuring transparency and easier handoffs across teams.

Education

University of Connecticut | Jan 21 – May 22

Master's in business Analytics and Project Management UCONN, CT | Cumulative GPA: 3.85/4.00

Graduate Teaching Assistantship | Sept 21 – Dec 21

Visual Analytics | Tableau UCONN CT

Indian School of Business | May 15 – May 17

Diploma in Technological Entrepreneurship Programme ISB, India

Jawaharlal Nehru Technological University | Aug 13 – May 17

Bachelor's in Information Technology JNTUH, India Percentage: 3.7/ 4.0