

# Goutham Kishore Krishnamoorthy

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## Professional Summary

Data Engineer with 4+ years of experience designing, building, and maintaining **production-grade data pipelines, ETL/ELT workflows, and business intelligence solutions** across **banking and enterprise domains**. Proven ability to deliver **scalable data architectures** using **Apache NiFi, SQL (Oracle, PostgreSQL), Python, and cloud-based platforms**, enabling reliable analytics and **measurable business outcomes**. Strong background in **data modeling, data integration, workflow automation, and performance optimization**, translating complex technical and business requirements into **analytics and ML-ready datasets**. Hands-on experience supporting **machine learning and advanced analytics initiatives** through **feature engineering, time-series analysis, model evaluation, and data quality validation**. Effective collaborator with a track record of partnering with **cross-functional and global teams** to deliver **end-to-end, data-driven solutions**.

## Technical Skills

- **Programming & Query:** Python, SQL, Scala, Java
- **BI & Visualization:** Tableau, Power BI, Apache Superset, Plotly, MicroStrategy, ArcGIS
- **Data Engineering:** Apache NiFi, ETL Pipelines, Data Warehousing, Apache Kafka, PostgreSQL, Oracle, MongoDB
- **ML & Analytics:** scikit-learn, XGBoost, NLP (TF-IDF, Transformers), Statistical Analysis
- **Cloud & DevOps:** AWS, Docker, Kubernetes, CI/CD, Helm
- **Frameworks & Tools:** React, Node.js, TypeScript, Express, Spring Boot, LangChain, Auth0, Git, JIRA

## Professional Experience

### Compass Group USA | *Business Intelligence Engineer*

Aug 2024 - Dec 2025

- **Led end-to-end analytical initiatives** by translating ambiguous business questions into measurable objectives, integrating Oracle POS and OrderMaestro data to produce enterprise-grade datasets covering sales, inventory, labor, and financial performance.
- **Delivered measurable business impact** by building demand forecasting and baseline regression models in Python, reducing stockouts and excess inventory by **15%** across market locations.
- **Identified operational inefficiencies** through deep exploratory data analysis and feature engineering, uncovering demand seasonality, cost drivers, and workflow bottlenecks that informed inventory and labor planning decisions.
- **Influenced executive decision-making** by presenting clear, data-driven insights to senior leadership, directly supporting budgeting, profit optimization, and weekly inventory governance.
- **Scaled analytics capability** by mentoring junior analysts and establishing repeatable analysis standards thereby improving team productivity and analytical consistency.

### CGI | *Data Engineer*

Aug 2021 - Jan 2024

- **Built and automated 20+ production-grade data pipelines** using Apache NiFi, reducing manual data processing effort by **40%** and enabling near-real-time ingestion across SQL databases, file systems, and Kafka streams.
- **Modernized enterprise data workflows** by migrating and transforming data across Oracle and PostgreSQL using Python-driven ETL processes, directly supporting analytics and reporting at scale.
- **Improved reporting accuracy and speed** by refactoring transformation logic and streamlining BI workflows, increasing dashboard accuracy by **25%** and cutting report generation time from hours to minutes.
- **Enabled business-ready analytics** by designing executive-facing dashboards in Apache Superset and Power BI, delivering financial and operational insights consumed by stakeholders.
- **Supported revenue and growth initiatives** through technical pre-sales collaboration, client demos, and proposal development, while maintaining strict data governance and compliance standards.

## Education

### University of Texas at Arlington

Jan 2024 - Dec 2025

*Master of Science, Data Science* (GPA: 3.8/4.0)

- **Coursework:** Machine Learning, Data Engineering, Big Data Management, Analytics & Visualization

### Vel Tech High Tech Dr. RR Dr. SR University

Jun 2017 - Jul 2021

*B.Tech, Computer Science Engineering* (GPA: 3.08/4.0)

## Key Projects

### AIO AI Operator Platform

- Architected production-grade AI platform delivering real-time insights, automated summaries, and performance metrics through event-driven architecture with TypeScript/Express backend (8+ REST endpoints)
- Developed React dashboard with interactive visualizations and secure Auth0 OAuth2/JWT authentication; deployed on Render/Vercel with production-ready error handling

### ServiceNow Ticket Analytics & Predictive Assignment Modeling

- Led analysis of 3 years of ServiceNow data using Python and NLP (TF-IDF, transformers) to predict optimal assignment groups and reduce ticket reassignment rates
- Developed interactive dashboards (Plotly, Power BI) revealing workflow inefficiencies and informing process optimization initiatives

### Retail Sales Forecasting

- Built predictive models achieving 92% accuracy for monthly retail sales forecasting; designed Power BI dashboards for demand planning insights

## Certifications

- **BI Tools Training:** Tableau, Power BI, ArcGIS, MicroStrategy (Udemy, Coursera)
- **Scala Certification:** (Coursera)