

# Krishna Sathvik Mantripragada

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## SUMMARY

Senior Data Engineer with 6+ years building scalable data infrastructure and analytics solutions across healthcare and enterprise environments. Skilled in Azure, AWS, Python, and the modern data stack (Databricks, Synapse, Power BI). Proven track record in delivering predictive analytics, automated reporting, and actionable insights that improve operational efficiency, forecasting accuracy, and decision-making across large-scale data ecosystems

## EXPERIENCE

### Data Engineer | Walgreens Boots Alliance – Chicago, IL

Feb 2022 – Present

- Process 10+ TB of healthcare retail data monthly with sub-second query performance by building scalable pipelines in Azure Databricks, Azure SQL Database, and Azure Data Factory for real-time executive dashboards
- Reduce query execution costs by 22% while integrating 15+ data sources by architecting optimized ETL workflows in Azure Synapse Analytics across DEV, SIT, UAT, and PROD environments
- Eliminate 30+ hours of manual work weekly and improve workflow efficiency by 30% by creating reusable Python and SQL automation frameworks enabling real-time analytics
- Accelerate deployment cycles by 40% through CI/CD pipeline implementation in Azure DevOps, enhancing KPI tracking and data governance across healthcare analytics platforms

### Analytics Engineer | CVS – Denton, TX

Oct 2020 – Dec 2021

- Designed and deployed Python and SQL-based ETL workflows processing 7+ million sales and financial records, increasing data accuracy by 16–35% and enhancing reliability of executive reporting and ML models
- Automated integration workflows between on-premises systems and Oracle Cloud, reducing manual processing by 31% and enabling real-time insights in Power BI and Tableau dashboards across multiple business units
- Re-engineered legacy SQL queries and migrated business logic to Python scripts, improving scalability, performance, and data consistency across 8+ enterprise databases
- Built Azure ML forecasting models leveraging 5+ years of historical trends, increasing budget and inventory forecast accuracy by 16% and supporting enterprise-wide resource allocation decisions

### Data Science Intern | McKesson – Denton, TX

Mar 2020 – Sep 2020

- Developed Python scripts to clean, preprocess, and analyze 2+ million prescription and sales records, improving data readiness by 22% for downstream analytics, forecasting models, and business intelligence initiatives
- Created and tested Azure ML models to predict prescription demand, achieving a 14% improvement in forecast accuracy over baseline methods and supporting supply chain and inventory management teams
- Designed and deployed Tableau dashboards visualizing patient behavior and prescription trends, enabling targeted decision-making for pilot business units and improving stakeholder engagement with data insights
- Partnered with data engineering team to integrate model outputs into ETL workflows, establishing automation foundations later scaled at CVS to support enterprise-wide forecasting and analytics pipelines

### Software Developer | Inditek Pioneer Solutions – Hyderabad, India

Jan 2019 – Dec 2019

- Built scalable backend APIs using Python and Django, integrating 10+ user interfaces with optimized database queries processing 100K+ daily transactions, improving overall system performance by 20% and reducing downtime by 15% through critical production fixes
- Developed a content aggregation and tracking system with advanced database optimization and caching, accelerating data retrieval speed by 71% and enhancing platform responsiveness for 1,000+ users

## SKILLS

- **Data Engineering & ETL:** dbt, Azure Data Factory, Airflow, Data Orchestration, ETL Pipelines
- **Cloud & Databases:** Azure, AWS, Snowflake, Redshift, BigQuery, PostgreSQL, MySQL, Oracle
- **BI & Visualization:** Power BI, Tableau, Looker
- **AI & ML:** Predictive Modeling, Forecasting, Anomaly Detection, Azure Machine Learning
- **DevOps & Automation:** Workflow Automation, CI/CD for Data, Data Quality Monitoring
- **Programming Languages:** SQL, Python, R

## EDUCATION

Master of Science in Computer Science

University of North Texas, Denton, TX

Bachelor of Technology in Information Technology

GITAM, Vizag, India

## PUBLICATION

Published the chapter [AI for Electricity Market Design](#) – Handbook of Smart Energy Systems (Springer)

## CERTIFICATIONS

- Microsoft Azure Data Engineer Associate, AI Engineer Associate, O'Reilly Generative AI with OpenAI API