

# Thrivikram Kotharu

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Analytics & Data Engineer with 3+ years of experience designing scalable data pipelines, warehouses, and dashboards using Python, SQL, AWS, Snowflake, Spark, Airflow, Kafka, and Tableau. Proven ability to transform raw data into trusted, analytics-ready datasets, enabling faster decision-making, real-time insights, and measurable cost savings.

## Skills

### Programming & Tools

- Python, SQL, R, Git, Jupyter Notebook, Excel (Pivot Tables, Advanced Functions), Tableau

### Data Engineering

- ETL/ELT Pipelines, Data Modeling (Star & Snowflake Schemas), Data Warehousing, API Integration, Batch & Real-Time Processing, Data Marts, Incremental Loads

### Big Data & Orchestration

- Apache Spark (Databricks), Apache Airflow, Apache Kafka, Apache NiFi

### Cloud & Databases

- AWS (S3, Lambda, Glue, CloudWatch, IAM), Snowflake, MySQL, PostgreSQL

### Analytics & Visualization

- Data Cleaning, EDA, Predictive Modeling, Statistical Analysis, Tableau & Power BI Dashboards, Data Storytelling

## WORK EXPERIENCE

### Data Engineer / Data Analyst

Oct 2022 – Aug 2024

#### Tata Consultancy Services (TCS)

- Designed and orchestrated 20+ scalable ETL pipelines using Python, SQL, Airflow, and Spark, reducing batch runtime by 45% and cutting manual effort by 30+ hours/week.
- Built and optimized Snowflake data warehouses (fact/dimension schemas, clustering, task scheduling), improving analytics query performance by 30–40%.
- Developed real-time Kafka streaming pipelines, enabling near real-time dashboards and reducing fraud detection latency from hours to minutes, saving ~\$150K annually.
- Delivered curated, validated datasets supporting KPI dashboards across 5+ business units, improving reporting accuracy by 15%.
- Collaborated with analysts, product, and business stakeholders to translate requirements into analytics-ready data marts, accelerating Tableau & Power BI adoption.

#### Junior Data Analyst, Oct 2021 – Sep 2022 Tata

#### Consultancy Services (TCS)

- Built and deployed **15+ Python- and SQL-based ETL workflows**, integrating APIs, flat files, and relational databases, increasing data availability by **35%**.
- Implemented **automated data quality checks** (null profiling, schema validation, thresholds), reducing reporting inconsistencies by **20%**.
- Optimized SQL queries and stored procedures, achieving **25–40% faster execution** for downstream analytics workloads.
- Developed **5+ Tableau dashboards** monitoring customer satisfaction, operational KPIs, and portfolio health, improving leadership visibility by **30%**.
- Conducted **predictive modeling** (Scikit-Learn, Pandas, NumPy) with **~85% accuracy** to forecast customer behavior and risk trends.

## RESEARCH EXPERIENCE

### Research Assistant (Volunteer) 2025-Present Central

#### Michigan University, Mount Pleasant, MI

- Conducted academic research on platform governance and gig worker benefits, applying a socio-technical systems and algorithmic management perspective.
- Co-authored a research paper accepted and presented at ICIS 2025 TREO (Association for Information Systems).
- Performed comparative analysis of U.S. and Indian gig-economy frameworks, examining regulatory structures, platform design, and digital infrastructure.
- Contributed to literature review, research synthesis, and theoretical framing, translating findings into policy- and platform-relevant insights.
- Performed comparative analysis of **U.S. and Indian gig-economy frameworks**, contributing to literature review, synthesis, and policy-relevant insights.

## PUBLICATIONS

### Platform Governance and Gig Worker Benefits: A Socio-Technical Approach Kata.

L. B. S., Kotharu, T., Huang, X.

ICIS 2025 TREO, Association for Information Systems (AIS), 2025

## Project

### Instamart Data Warehouse & Dimensional Modeling | Snowflake, AWS S3, SQL (Documentation)

- Designed and implemented a Star Schema with 1 fact and 5+ dimension tables, enabling queries across orders, products, and customers.
- Built ELT pipelines from AWS S3 → Snowflake, loading and transforming 3M+ records, improving query performance by 40%.
- Delivered 7+ analytical use cases (basket size trends, reorder rates, peak hours), supporting portfolio-style reporting and insights.

### **Spotify Playlist ETL Pipeline – AWS Cloud**

- Automated daily ingestion of 1,000+ records from the Spotify API using AWS Lambda and CloudWatch triggers.
- Transformed raw JSON into structured datasets in S3 (raw → processed layers), enabling scalable reporting.
- Implemented AWS Glue Crawler + Data Catalog, reducing schema creation time by 80% and enabling SQL-based analytics in Athena with sub-2 second queries.
- Reduced manual data processing by 100%, ensuring fully automated reporting.

## **Honors & Awards**

### **Iron Viz Data Visualization Competition — Winner**

- Central Michigan University, College of Business Administration | Jun 2025
- Recognized for excellence in data visualization, Tableau storytelling, and analytical insight at the university level.

### **On The Spot Award**

- Tata Consultancy Services (TCS) | Feb 2024
- Awarded for immediate impact and outstanding performance in delivering high-quality analytics and data engineering solutions.

### **Applause Award**

- Tata Consultancy Services (TCS) | Jul 2023
- Recognized for consistent high performance, collaboration, and client impact across project deliverables.

### **Star Team Award**

- Tata Consultancy Services (TCS) | Oct 2022
- Awarded for exceptional team contribution in successfully delivering complex data initiatives.

### **Applause for Team Award**

- Tata Consultancy Services (TCS) | Aug 2022
- Recognized for cross-functional teamwork and execution excellence.

### **Best Team Award**

- Tata Consultancy Services (TCS) | Jun 2022
- Honored for top-performing project team, meeting aggressive timelines and quality benchmarks.

## **Certifications**

- Tableau Desktop Specialist – Tableau
- Google Data Analytics

## **Education**

### **Central Michigan University, Mount Pleasant, MI**

Master of Science in Information Systems | Anticipated Graduation: Aug 2026 | GPA: 3.9

### **ACE Engineering College, Hyderabad, India**

Bachelor of Technology in Electrical & Electronics Engineering | Graduated: May 2021