

# Shashidhar Reddy Chavula

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## SUMMARY

Data Engineer and Analyst with 3+ years of experience designing ETL pipelines, building data lakes, and driving insights via business intelligence tools (Power BI, Tableau). Skilled in Python, SQL, and cloud platforms (AWS, Azure) to optimize data workflows, reduce costs by 20–30%, and enhance real-time decision-making. Proficient in Spark, Snowflake, and Databricks for scalable data solutions, with hands-on expertise in machine learning and AI-driven analytics.

## EDUCATION

Florida International University – Master of Science in Computer Science

January 2023 – December 2024

GPA: 3.52/4.00

Vignan Institute of Technology & Science – bachelor's in computer science and engineering

June 2017 – July 2021

GPA: 7.0/10.0

## WORK EXPERIENCE

Florida International University | Graduate Teaching Assistant | Florida

August 2023 – December 2024

- Mentored 15+ student teams on data-driven projects, emphasizing Python scripting and cloud deployment (AWS/Azure), improving project delivery efficiency by 25%.
- Delivered lectures on data security and API integration, aligning coursework with industry best practices for scalable systems.

Infosys Limited | Data Engineer | India

September 2021 – January 2023

- Performed **data profiling** and anomaly detection on healthcare datasets, improving data consistency for stakeholder reporting
- Engineered scalable data pipelines and optimized **ETL** workflows using SQL, Python, **Apache Spark**, and **Snowflake**.
- Optimized infrastructure by leveraging AWS technologies such as **Redshift**, **Glue**, and **Lambda**, cutting pipeline downtime by 30%.
- Collaborated with stakeholders to deliver robust solutions, increasing customer satisfaction by 10%.

OH look | Data Analyst | India

January 2020 – September 2021

- Automated reporting and A/B testing workflows using Python (**SciPy**) and Power BI/Tableau, increasing user engagement by 15%.
- Boosted customer retention by 12% (**Scikit-learn**) segmentation models and reduced inventory stockouts through Xgboost forecasting.
- Migrated legacy systems to AWS (**S3**, **Glue**, **Redshift**) and built real-time **Kafka/Azure Data Factory** pipelines, integrating multi-source data for unified dashboards and driving a **15% increase in user engagement**.
- Transformed raw datasets with **SQL/Python ETL**, improving data consistency and reliability across enterprise systems.

## SKILLS

**Programming Languages:** Python, SQL, Java, Scala, JavaScript, C/C++, R

**Cloud Platforms:** AWS (Redshift, Glue, Lambda, EC2), Azure (Data Lake, Databricks), Snowflake

**Databases:** MySQL, Microsoft SQL Server, Oracle, NoSQL (MongoDB)

**Big Data Tools:** Apache Spark, Apache Airflow, Databricks, Snowflake

**Data Science & ML Libraries:** Pandas, NumPy, Scikit-learn, TensorFlow, OpenCV

**BI & Analytics Tools:** Data Profiling, ETL/ELT, Predictive Modeling, Tableau, Power BI

**Development & DevOps:** Git, Docker

**ETL Tools:** Informatica, SSIS, Apache Airflow, AWS Glue

## PROJECTS

Heart Disease Prediction Model

- Engineered a **LightGBM** model (95% accuracy) and deployed via a **JavaScript/HTML** web app.
- Led the project presentation** at the IEEE "2021 Third International Conference on Inventive Research in Computing Applications (ICIRCA)," showcasing innovative solutions and research findings.

Real-Time Support Metrics Dashboard

- Built a **Power BI** dashboard using **Azure Data Factory** pipelines to track KPIs like response time and resolution rates, boosting operational visibility.

IoT Smart Car Development and Testing

- Assembled IoT Smart Car with Wi-Fi, camera, and ultrasonic sensors for obstacle avoidance. Created front-end webpage, tested ESP32 firmware and Wi-Fi scan, and configured AWS IoT infrastructure, including Things, Groups, policies, and **EC2** instances.

## CERTIFICATIONS

- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional** | Oracle university
- Cisco Certified Network Associate (CCNA) – Routing and Switching** | Cisco Networking Academy
- Introduction to Cybersecurity Tools & Cyber Attacks** | IBM
- AI for Everyone** | Deeplearning.ai

## PUBLICATIONS

- IEEE Third International Conference on Inventive Research in Computing Applications (DOI: [10.1109/I-SMAC52330.2021.964](https://doi.org/10.1109/I-SMAC52330.2021.964))