

# Amarnath Reddy Malkireddy

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## PROFESSIONAL SUMMARY

Results-driven Data Analyst with 5 years of progressively responsible experience in transforming complex data into actionable insights across healthcare, government, telecom, and retail sectors. Adept at building scalable ETL pipelines, predictive models, and real-time dashboards using Python, SQL, Tableau, and Power BI. Skilled in leveraging cloud platforms (AWS, GCP), implementing CI/CD workflows, and ensuring compliance with HIPAA, SOX, and FERPA standards. Proven track record of using AI-driven tools like GPT APIs to streamline reporting and accelerate business decisions. Strong collaborator with a passion for data storytelling, automation, and driving data-first strategies.

## TECHNICAL SKILLS

- **Programming:** Python (Pandas, NumPy, Scikit-learn), R, SQL (PostgreSQL, BigQuery, Redshift), Bash.
- **Cloud Platforms:** AWS (S3, Glue, Lambda, Redshift), GCP (BigQuery, Cloud Functions), Snowflake.
- **Data Engineering:** ETL/ELT pipelines, dbt, Airflow, REST APIs, data modeling, Data Warehousing.
- **Visualization:** Tableau, Power BI, Looker, Google Data Studio, Excel (Pivot, Power Query, VBA).
- **Machine Learning:** Regression, Classification, ARIMA, Clustering, Forecasting, Anomaly Detection.
- **DevOps & Automation:** Git, GitHub Actions, Docker (Basics), CI/CD pipelines, Terraform (familiar).
- **Infrastructure:** Linux, Kubernetes (Basics), Flask APIs.
- **Governance:** HIPAA, FERPA, SOX/PCI DSS, SLA/QoS, metadata management.
- **Generative AI:** GPT API for report automation, workflow acceleration, and narrative generation.

## PROFESSIONAL EXPERIENCE

### Bioinformatics Data Analyst

May 2024 – Present

US Tech Solutions (Client: NYS Dept. of Health), Albany, NY

- Developed GCP-based ETL pipelines processing 200K+ monthly EHR records via FHIR APIs, improving data access by 65%.
- Built 8+ Tableau/Looker dashboards for real-time capacity metrics, cutting manual reporting time by 40%.
- Automated dbt workflows with testing and lineage tracking, reducing pipeline failures by 30%.
- Integrated anomaly detection using SQL + Python, reducing critical data errors by 25%.
- Leveraged GPT APIs to auto-generate narrative reports, accelerating reporting cycles by 25%.

### Data Analyst Intern

May 2022 – Aug 2022

University at Albany, Albany, NY

- Consolidated academic datasets using Python + Power Query, boosting data reliability by 30%.
- Built PostgreSQL dashboards for retention analytics; supported targeted outreach efforts across departments.
- Led Tableau/SQL workshops for 15+ internal teams to democratize data access and improve operations.

### Application Development Analyst

May 2019 – Dec 2021

Accenture, Hyderabad, India

- Delivered AWS data pipelines (S3, Glue, Redshift) for telecom client supporting 2M+ records daily.
- Analyzed SLA/QoS metrics to improve operations by 15% using Python dashboards.
- Built SOX-compliant dashboards and supported fraud detection analysis, reducing risk by 10%.
- Created churn prediction models (80% accuracy) that improved customer retention by 20%.
- Mentored 4 junior analysts and promoted Agile processes using Git and JIRA.

## PROJECTS

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### Resume & Application Automation (Personal Project)

- Built Python CLI using GPT API to generate tailored resumes and cover letters, reducing application time by 60%.
- Deployed automation via GitHub Actions (CI/CD) to scan jobs and trigger resume tailoring pipelines.

### COVID-19 Hospitalization Forecasting (Capstone Project)

- Modeled hospitalization demand using ARIMA and XGBoost for pandemic planning.
- Built Tableau dashboards with stakeholder simulation and alerting capability.

### Customer Churn Exploration (Kaggle-style)

- Created end-to-end pipeline using Snowflake + PostgreSQL; modeled churn with Logistic Regression + XGBoost.
- Deployed scoring API with Flask + AWS Lambda; visualized results in Power BI with executive-ready insights.

## EDUCATION

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**M.S. in Data Science**, University at Albany, SUNY

*Dec 2023*

*Relevant Coursework:* Machine Learning, Data Mining, Statistical Computing, Big Data Analytics

## CERTIFICATIONS

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- Python for Data Science, AI, and Development – IBM
- Data Visualization and Dashboards with Excel and Cognos – IBM
- Introduction to Data Analytics – IBM
- Excel Basics for Data Analysis – IBM
- PCEP – Certified Entry-Level Python Programmer – Python Institute
- AZ-900: Microsoft Azure Fundamentals – Microsoft