

# Amyuktha Gummadi

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## PROFESSIONAL SUMMARY

Results-driven **Data Engineer and DevSecOps professional** skilled in building secure data pipelines, automating cloud workflows, and delivering analytics dashboards. Experienced in **Python, SQL, AWS, and ETL development** to transform and visualize data efficiently. Proficient in **data modeling, orchestration, and CI/CD**, improving system reliability and scalability. Strong background in cloud integration, monitoring, and cybersecurity for end-to-end data operations.

## TECHNICAL SKILLS

**Programming & Scripting:** Python, SQL, C, Bash, PowerShell

**Data Engineering:** ETL Pipelines, Data Modeling, Transformation, Validation, Airflow (Basic), Data Quality Monitoring

**Cloud & DevOps:** AWS (Lambda, S3, API Gateway, CloudWatch), Azure, Oracle Cloud, Docker, Terraform (Basic), GitHub Actions (CI/CD)

**Databases:** PostgreSQL, MySQL, Snowflake (Basic)

**Monitoring & Automation:** Prometheus, Grafana, Jenkins (Basic)

**Visualization & Analytics:** Power BI, Tableau, Excel, Pandas, NumPy, Scikit-Learn

**Security & Reliability:** Network Security, IAM (RBAC), Risk Assessment, Business Continuity Planning

## EXPERIENCE

**Full-Stack Developer | Saayam For All | Remote, USA | Aug 2025 – Present**

- Built and deployed **AWS-based ETL pipelines** using Python and PostgreSQL, reducing data refresh time by 45%. Automated deployments with **GitHub Actions**, cutting release cycles by 30%. Set up **Prometheus + Grafana dashboards**, improving uptime visibility by 40%.

**Data Engineer | Arete IT Services Pvt. Ltd | Vijayawada, India | Jul 2022 – Jul 2023**

- Developed and maintained **Python + MySQL ETL pipelines** integrating five data sources. Optimized SQL queries and indexing, boosting load performance by 35%. Automated transformations, saving ~10 hours per week of manual effort. Built SQL views and procedures supporting analytics and reports.

**Data Engineer Intern | Avishkar Tech Solutions | Remote, India | Jun 2021 – Jun 2022**

- Automated data parsing and cleaning with Python + Pandas, improving data quality by 20%. Used NumPy vectorization to cut pipeline runtime by 25%. Verified schema changes to ensure ETL data consistency.

## PROJECTS

**Sentiment Analysis App | Python · Scikit-Learn · Streamlit**

- Developed a TF-IDF + Logistic Regression model achieving **~85% accuracy** on IMDB reviews.
- Deployed a Streamlit web app supporting real-time predictions, reducing manual labeling effort by **50%**.

**Mood Song Predictor | MySQL · Power BI**

- Engineered a relational music database (Users, Songs, Playlists, Moods) and created SQL views predicting mood from **valence, energy, and tempo**.
- Built Power BI dashboards visualizing top songs, likes, and skips **reduced analysis time by 60%** for playlist insights.
- Applied ETL workflows to integrate raw CSV inputs into reporting tables with **100% schema validation success**.

**Intrusion Detection System | Deep Learning · Network Security**

- Designed and trained a DNN-based IDS that increased intrusion detection accuracy by **18%** compared to baseline ML models.
- Processed 50k+ network events to classify threats and reduce false positives by **25%**.

**Woodfire Wonders Pizzeria | Business Continuity Plan**

- Developed a BCP improving **recovery time by 80%** through automated backup and restoration workflows.
- Conducted risk assessments covering 12+ potential threats, ensuring operational continuity during outages or cyber incidents.

## EDUCATION

**Rowan University** - M.S. in Computer and Information Systems Security – May 2025

**KL University (KLEF)** - B.Tech. in Computer Science – May 2023

## CERTIFICATIONS

- **Introduction to Data Engineering – IBM (Coursera)**
- **Microsoft Azure Fundamentals (AZ-900)**
- **Oracle Cloud Infrastructure Foundations Associate**
- **Aviatrix Multicloud Networking Associate**