AKASH MYSA

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# EDUCATION

# Master of Science in Data Science Aug 2023 – Mar 2025

Grand Canyon University, Phoenix, AZ **GPA:** 3.86/4

**Coursework:** Regression Analysis, Predictive Modeling, Data Mining, ML and NN

**Bachelor of Technology in Information Technology** Aug 2019 – May 2023

Gokaraju Rangaraju College of Engineering and Technology (GRIET) **GPA:** 3.36/4

**Coursework:** Data structures, Java, SQL, OOPS, Operating Systems, Computer Networks, Compiler Design

# SKILLS

**Languages:** C, Python, JavaScript

**Cloud & Tools:** Google cloud Platform, Git, GitHub, JIRA

**Development:** Flask, Fast API, SQL, MYSQL, LINUX, HTML, CSS

**Fundamentals:** Data structures and algorithms, Operating systems, DBMS, UNIX

# WORK EXPERIENCE

**Test engineer,** Jabil Mar 2025 - Present

* Diagnose and resolve hardware/software issues on over 1800 units, ensuring 98%+ accuracy.
* Identifying root causes and implementing long-term fixes, reducing repeat issues by 50%.
* Using Linux and SSH to perform remote troubleshooting, cutting resolution time by 60%.
* Collaborate with engineering teams to resolve technical problems, improve team efficiency by 50% and develop internal full-stack dashboards for real-time monitoring and reporting.
* Support front-end/backend integration efforts by contributing to internal web applications used for logging, tracking, and visualizing system performance data.

**Machine Learning Intern,** Rinex Technologies Jan 2022 – Feb 2022

* Developed Python + OpenCV models for real-time human tracking with 95% accuracy.
* Pre-processed 50,000+ images, improving model training efficiency by 25% developed and optimized 5+ end-to-end data pipelines, ensuring seamless data integration, transformation, and analysis.
* Integrated AI detection systems into applications, reducing false positives by 15%.

# PROJECTS

1. **INTELLIGENT NLP SYSTEM**

**Technology used**: Python, Flask, Mistral AI | [Live](http://127.0.0.1:5000/)

Built an NLP system integrating DialogFlow and Sentiment Analysis, achieving 94.75% F1-score with sub-second responses. Developed a secure Flask web app with user authentication and an admin dashboard handling 10K+ user interaction. Engineered and deployed Conv1D and LSTM+Conv1D models, selecting optimal architecture for production.

1. **PRIVACY PRESERVIG BLOCKCHAIN MECHANISM**

**Technologies used:** Python, FHE, SSH, Cryptography

Implemented SSH public-private key-based secure authentication to prevent unauthorized access. Developed a Fully Homomorphic Encryption (FHE) and SHA-based cloud security architecture, enhancing data security by 40%. Built encryption/decryption algorithms protecting sensitive blockchain transactions for 500+ clients.

1. **REAL-TIME HUMAN DETECTION AND COUNTING**

**Technologies used:** OpenCV, Python

Designed and deployed an object detection and tracking system using optical flow and background subtraction, improving motion tracking accuracy by 30%. Achieved 95% accuracy in real-time human detection leveraging shape, texture, and motion-based classification.