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, React, 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 | GitHub
   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.

2. **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.

3. **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.

4. **Real-Time Spotify Music Data analytics**
   Technologies used: GCP, Apache airflow, BigQuery
   Automated an ETL pipeline that processed 1M+ records from spotify API, enabling real-time analysis of music trends and artist popularity. Automated data extraction of songs, artists and playlists, reducing manual effort by 80%.