SAHANA JAYASIMHA HOLKAL

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SUMMARY

Master's student in Computer Science with 3 years of experience in automation, cloud-native platforms, and data security. Skilled in optimizing systems for security and efficiency, with a proven track record in real-time monitoring and disaster recovery. Currently focused on Artificial Intelligence and Machine Learning, with the goal of building purposeful, human-centered solutions that drive accessibility and innovation.

TECHNICAL SKILLS

Languages: Python, Java, SQL , C.
Frameworks & Tools: AWS (S3, Lambda, EC2, Quicksight, Athena), Streamlit, LangChain, Git, Postman, JMeter
AI/ML: PyTorch, TensorFlow, Scikit-learn, OpenCV, Cohere
Concepts: Data Structures & Algorithms, Cloud Computing, Automation, LLM Orchestration, Data Visualization

EDUCATION

Arizona State University   Tempe, USA
*MS in Computer Science - **4.0***   ***May 2027 (Expected)***
Bangalore Institute Of Technology   Bangalore, India
*BE in Computer Science - **8.94***   ***July 2022***
Publications and Certifications :
[Sign Language Recognition System publication , IJISRT22JUL728](). **; Neural Networks and Deep Learning, DeepLearning.AI, Coursera , (Aug 2020) , AWS Cloud Practitioner (Ongoing) , Data Science Bootcamp 2023.**

PROFESSIONAL EXPERIENCE

Fidelity Investments   Bangalore, India
Data Engineer   *August 2022 – June 2025*

- Implemented automation and built a cloud-based dashboard that streamlined complex data flows, **saving 30+ hours** weekly and boosting efficiency completely on AWS Quicksight and Athena.
- **Enhanced data security** by onboarding a **sensitive data discovery tool,** scanning hundreds of schemas to detect and safeguard PII in the data lake.
- **Led API testing** and **rebuilt disaster recovery architecture** for a cloud-native data tokenization solution on AWS, ensuring resilience and availability.

Cognitive Clouds   Bangalore, India
Software Development Intern   *September 2021 – October 2021*

- Internship in API testing with Postman Monitor and Apache JMeter; automated workflows, implemented mock servers, and performed load/stress testing.

ACADEMIC PROJECTS

Clickless AI Grocery Agent   *Oct 2025 - Dec 2025*

Developing a **clickless AI tool** that scrapes grocery platforms and uses **multi-agent orchestration** to compare prices, recommend the best choice, and autonomously complete the purchase process.

Paperclip - Research Assistant - Sunhacks(Hackathon)   *Sept 2025 - Dec 2025*

Built an AI-Agentic powered research assistant using multi-agent orchestration and UI integration to streamline the end-to-end research process. [Github link]().

Deep Learning for Medical Image Analysis   *Aug 2025 - Dec 2025*

Trained ResNet18/50, CNN, Ark, and U-Miss+ on MedMNIST, CheXpert, and ChestMNIST (18+ 2D/3D datasets) for lesion segmentation and lung disease classification, targeting state-of-the-art accuracy and robustness.

Sign Language Recognition System   *July 2022*

Developed a deep learning system for sign language recognition using SSD, 2D/3D CNNs, and LSTMs with Depth and RGB inputs, integrating multimodal data for robust feature extraction and training with Python, TensorFlow, Keras, and OpenCV.

LEADERSHIP EXPERIENCE

Rotaract Bangalore West - *Vice President, Treasurer, Secretary* **| Tedx BIT Bangalore -** *Creative team head*