SHERLA SHIVA SAI
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OBJECTIVE

Final-year AI/ML undergraduate with published research in precision agriculture and cybersecurity. Experienced in building production-grade ML systems using LLMs, NLP, and Deep Learning. Eager to contribute to cutting-edge AI research at Microsoft as a Research Fellow, leveraging multi-agent AI design, cloud-native deployment, and real-world problem solving. particularly interested in human-AI collaboration and multi-agent systems

EDUCATION

B.Tech in Computer Science (AI & ML)
Siddhartha Institute of Engineering & Technology, affiliated to JNTU Hyderabad
Dec 2021 – Jun 2025 |

- Best Student Research Paper Award (ICMDRI-2025)
- Relevant Courses: Deep Learning, NLP, Statistical Inference, Speech & Video processing, AI

RESEARCH PUBLICATIONS

MCP-AI: Multi-Agent Control Platform for Autonomous Crop Management
ICMDRI-2025, Siddhartha Institute of Engineering & Technology

- Published peer-reviewed research on multi-agent intelligent systems integrating IoT and AI agents for real-time farm management.
- Proposed architecture for data-driven decision-making using sensors and cloud-based AI.

Phish Catcher: Client-Side Defence Against Web Spoofing Using ML
ICMDRI-2025, Siddhartha Institute of Engineering & Technology

- Developed Random Forest-based phishing detection model achieving ~97% accuracy.
- Designed for lightweight, real-time implementation in client-side browsers.

PROJECTS & RESEARCH EXPERIENCE

Conversational AI Research Assistant github.com/sherlashivasai/Conversational-AI-assistant

- Built modular real-time voice assistant using LangChain, GPT-3.5, STT/TTS.
- Achieved 87% speech-to-text accuracy and deployed using GCP microservices.

Medical QA Chatbot using RAG + Gemma3 LLM github.com/sherlashivasai/Medical-Chatbot

- Created domain-specific chatbot using Retrieval-Augmented Generation.
- Used Gemma3-9B, LangChain, and Streamlit to deploy with 82% test accuracy.

Crime Prevention via CCTV Network Analysis github.com/sherlashivasai/Smart-City-Surveillance

- Implemented anomaly detection system for motion tracking and predictive policing.
- Achieved 84% accuracy for real-time surveillance threat prediction.

TECHNICAL SKILLS

Languages: Python, SQL, C
Frameworks: TensorFlow, Scikit-learn, CrewAI, STT, TTS, Hugging Face
NLP & LLMs: LangChain, LangGraph, Groq
Cloud & Others: GCP, Docker, System design
Tools: Git, Power BI, Streamlit, Flask, REST APIs

CERTIFICATIONS & WORKSHOPS

- Deep Learning Specialization – Neuralearn.AI
- Generative AI – KrishAI Technologies (Udemy)
- Agentic AI – Ed Doner (Udemy)
- Computer Vision – Rajeev D Ratan
- AI Workshop – IIT Hyderabad (TechnoGyan)