Akshith Jalagari

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Professional Summary

Final-year B.Tech CSE (AI & ML) student with hands-on experience in machine learning, IoT systems, and AI-driven automation. Worked on defense-oriented analytics involving real-time sensor data, simulation models, and predictive systems.

Education

Vignana Bharathi Institute of Technology (VBIT), Hyderabad
B.Tech in Computer Science and Engineering (AI & ML) Expected 2026 | CGPA: 7.3 / 10

Narayana Junior College, Hyderabad
MPC 2021 | CGPA: 9.07 / 10

Narayana Olympiad School, Hyderabad
SSC 2019 | CGPA: 10 / 10

Experience

Bharat Dynamics Limited (BDL) — Research Experience Aug 2025 – Sep 2025

- Designed and implemented a sensor-based IoT threat prediction system integrating real-time data acquisition and ML models.
- Developed physics-driven trajectory modeling with real-time visualization dashboards.
- Enhanced prediction performance through iterative data analysis and model tuning.

AICTE Virtual Internships — Cloud, AI & Full Stack 2024 – 2025

- Implemented Zero Trust architecture concepts for multi-cloud environments.
- Deployed GenAI and full-stack applications using Spring Boot, React, and GCP.

Technical Skills

Programming: Java, Python, C
ML / AI: TensorFlow, Keras, Scikit-learn
Frameworks: Flask, Streamlit
Tools & Platforms: AWS, GCP, n8n, Git, MySQL, ServiceNow
Core Areas: Machine Learning, Deep Learning, IoT, Cloud AI, Automation Systems

Projects

AI-Powered Support Automation System (RAG)

- Built an AI-powered support automation system using Retrieval-Augmented Generation (RAG), Chroma vector database, and Gmail API.
- Enabled context-aware response generation with human-in-the-loop approval and safety control mechanisms.
- Designed decision-based workflows for drafting, approval, and automated response delivery.

Threat Prediction Through Sensor-Based IoT

- Developed a sensor-based IoT threat prediction system integrating real-time data acquisition and machine learning models.
- Implemented physics-driven trajectory modeling with real-time visualization dashboards.

Personalized Diabetes Suggestion System

- Implemented blockchain-backed immutable storage for medical records to ensure data integrity and traceability.
- Integrated firewall-based authentication with role-based access control to restrict unauthorized access.

Certifications

ServiceNow CSA & CAD (2024), CS50 (Harvard), Google Cloud GenAI (AICTE)
AWS Cloud Architecting, Cisco JavaScript Essentials, Infosys Springboard

Key Achievements

- Completed a defense-oriented AI research project at Bharat Dynamics Limited.
- Presented an IoT Smart Agriculture system at VBIT Technical Symposium.
- Built AI automation workflows using n8n and Telegram bots.