Katam Akhilesh

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SUMMARY

Computer Science Engineer with good knowledge of AI/ML, Python, Data Structures, and Algorithms with C and C++. Familiar with developing significant projects that incorporate Machine Learning and embedded systems. Experienced in using Flask for backend development and capable of handling API integrations. Proficient in graphic design with a creative twist to technical implementations. Recently gained experience in implementing AI on edge devices. Strongly interested in merging intelligence and interactivity between systems through optimal software design and development.

EDUCATION

Aditya Institute Of Technology And Management — Srikakulam, India
B.Tech in Computer Science and Engineering — *2023 – 2027*
  - GPA: **8.8/10.0**

Andhra Loyola College — Vijayawada, India
Intermediate in Maths, Physics and Chemistry — *2021 – 2023*
  - Percentage: **88%**

Atkinson High School — Vijayawada, India
Central Board of Secondary Education — *2020 – 2021*
  - Percentage: **84%**

PROJECTS

IoT Based Crop Protection System with AI-Driven Animal Detection and Water Management
  - Deployed YOLOv8 on Raspberry Pi 5 for real-time detection of crop-damaging animals.
  - Triggered repellent sounds and alerts via Blynk IoT to deter intrusions.
  - Monitored temperature, humidity (DHT11), and water levels (HW-038 + MCP3208).
  - Enabled real-time logging, detection history, and remote farm monitoring.
  - Tools: Raspberry Pi 5, YOLOv8, Python, OpenCV, Blynk IoT, Twilio API, DHT11, HW-038.

Resume Parser
  - Built ATS-based resume analyzer with keyword extraction and summarizer using NLP.
  - Integrated real-time job trend graphs based on selected roles.
  - Highlighted keywords and offered actionable resume suggestions.
  - Used Flask backend and Chart.js for insights and visuals.
  - Tools: Python, Flask, React.js, Chart.js, AWS.

SKILLS

- **Languages:** C, C++, Python, SQL, Flask, Django
- **Machine Learning:** YOLO, Model Deployment, OpenCV, Pandas, NumPy, Bokeh, Seaborn, SciKit Learn, NLP, Deep Learning, TensorFlow, Keras
- **Tools:** Git, Postman, Restful API
- **Hardware:** Raspberry Pi 5, Arduino UNO

PATENT

- **"IoT-Based Crop Protection System with AI-Driven Animal Detection and Water Management"** – Patent submitted, 2025.

CERTIFICATIONS

- Google GenAI Study Jams – Google Developer Students Clubs
- Introduction to Programming using C – NPTEL
- C++ with DSA Advanced – Udemy
- C Programming Contest Winner x2 – Aditya Institute of Technology and Management
- AI ML Workshop – IIT, Hyderabad
- Merit in Emotion Recognition using Facial Expression Workshop – JNTU, Vizianagaram