Ajay Anand S

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 Ondipudur, Coimbatore

AI/ML intern with practical experience in Generative AI, IoT integration, and safety systems. Focused on developing real-world solutions that address industrial and public safety challenges.

EDUCATION

Integrated M.Sc Artificial Intelligence and Machine Learning	**Oct 2021 – May 2026**
Coimbatore Institute of Technology, Coimbatore	CGPA: 7.00 (Till 7th Semester)
Higher Secondary Education (12ᵗʰ Grade)	**2020 – 2021**
Adharsh Vidhyalaya, Palladam	Percentage : 82.5%

SKILLS

- **Languages:** Python, HTML, JavaScript, MySQL
- **Tools:** Tkinter, NetworkX, Matplotlib, Scikit-learn, Hugging Face Transformers, LangChain, OpenAI API, Gradio
- **Concepts:** ML, LLMs, GenAI, IoT, Data Analysis, Safety Systems
- **Soft Skills:** Leadership, Communication, Creative Thinking, Quick and Deep Analysis, Practical Self-Learner

EXPERIENCE

Software Developer Intern (GenAI)   **Maxbyte Technologies — 6 Months**
Coimbatore, India

- Developed an AI-powered summary generation tool using Groq LLM, delivering real-time insights from live shift data.
- Deployed a facial recognition-based attendance system, reducing manual logging errors by over 80%.
- Streamlined predictive reporting by integrating GenAI pipelines with existing industrial dashboards.

PROJECTS

Roast-Master – Generative AI Chatbot

- Architected a transformer-based GenAI chatbot that delivers real-time humorous roasts with over 90% sarcasm relevance.
- Customized and optimized an open-source LLM using 2K+ tailored prompts and dialogue samples to enhance wit consistency.
- Accelerated response generation to sub-1.5 seconds through advanced token caching and streamlining.

#Minee – AI Smartwatch Prototype

- Designed a real-time threat-detection AI smartwatch leveraging multi-sensor fusion for emergency classification.
- Implemented precision-tuned ML models achieving 92% alert accuracy in varied threat simulations.
- Validated on embedded platforms with a 25% drop in false positives after iterative calibration.

Smart Helmet for Civic Safety

- Directed a team of 4 to build an IoT helmet that disables vehicle ignition under unsafe rider conditions.
- Piloted in collaboration with the Coimbatore Traffic Commissioner's office for field-level testing.
- Achieved full ignition lock reliability and 85% alcohol detection precision in real-world trials.

Customer Sentiment Analysis System

- Developed a scalable sentiment classifier using SVC and Random Forest, trained on 10K+ reviews.
- Empowered business clients with visual dashboards, reducing manual feedback processing by 60%.
- Delivered 88% prediction accuracy and 85% F1-score, enhancing CX-driven decision-making.

PUBLICATIONS

- *"Machine Learning: The Branch of AI"* – Published at ICAC-2022, Bharathiar University.

ACHIEVEMENTS

- Finalist, Technovation Project Competition – Anna University (April 21, 2023)
- Delivered a working smart helmet prototype in collaboration with the City Traffic Commissioner's office.

CERTIFICATIONS

- Introduction to AI & ML – Springboard Infosys
- Life Skills & Professional Skills – BYU Pathway
- Sensor Integration & Interface – PSG College - March 2023

INTERESTS

Artificial Intelligence • NLP • IoT • LLM • GenAI • Machine Learning • Data Science