

Ajay D

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PROFILE

Highly motivated AI & Machine Learning student with strong foundations in Java and Python. Experienced in developing Android and Flutter applications and building full-stack projects using React, Node.js, and modern web technologies. Practical experience in Generative AI (LLMs) and Computer Vision, specifically fine-tuning models for synthetic data generation. Passionate about leveraging data, algorithms, and design to build intelligent, user-focused applications.

EDUCATION

Bachelor of Technology, Artificial Intelligence and Machine Learning, <i>Panimalar Engineering College</i>	10/2022 – 2026
Senior Higher Secondary, Velammal Vidyalaya	08/2020 – 05/2022

SKILLS

Programming Languages Java, Python, Flutter, Lua	Cloud Hugging Face Hub, AWS (EC2, S3), Google Colab, Firebase	AI & ML Libraries MediaPipe, OpenCV, Pandas, Unslot, Hugging Face
Tools & Web Git, Docker, VS Code API, Hoppscotch		

PROJECTS

Synthetic Data Generator, (Gen-AI / LLM) Python, Unslot, Llama-3, PyTorch	05/2025 – 09/2025
• Fine-tuned Llama-3 (8B) via Unslot/QLoRA, achieving 2x faster training and reduced VRAM usage on consumer hardware.	
• Engineered a custom pipeline for Synthetic Data Generation, solving domain-specific data scarcity issues for downstream model training.	
Smart Identity Guardian, (Behavioral Biometrics) Python, Scikit-learn	12/2025 – Present
• Developing a Continuous Authentication system that validates user identity via behavioral biometrics (keystroke dynamics, mouse velocity).	
• Implemented a Risk-Based Scoring Engine (0–100) that detects anomalies in real-time, triggering adaptive security responses.	
Gesture-Controlled Interface, (Computer Vision) Python, OpenCV, MediaPipe	02/2025 – 06/2025
• Built a hands-free HCI system using OpenCV to control mouse cursors and clicks via real-time hand tracking.	
• Utilized MediaPipe for precise hand-landmark detection, mapping 2D coordinates to screen resolution with low latency.	
Codur, VS Code Extension & Platform React, TypeScript, VS Code API	08/2025 – 10/2025
• Launched a Developer Tool that visualizes code logic (AST) to enhance code comprehension for developers.	
• Built a full-stack web platform using React and Tailwind CSS to handle user onboarding and documentation.	

CERTIFICATES

Introduction to Cloud AWS Academy	Dart and Flutter Udemy	Data Science Nasscom	Generative AI Oracle
Introduction to Data Science Infosys	Introduction to Python Infosys	UI/UX Internship Kevell Guru	

PUBLICATIONS

PixelWave: Crafting Videos from Images and Audio TIJERC001277	01/12/2023
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