

Deepesh Kumar Kotta

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EDUCATION

CMR Institute of Technology

B.E in Artificial Intelligence and Machine Learning

Expected Graduation: 2028

CGPA: 9.51

EXPERIENCE

Engineering Intern – Dopove Private Limited

July 2026

Agentic Code/Document Auditor & AWS Infrastructure Deployment

Coimbatore, Tamil Nadu

- Built an agentic code/document auditor that indexes uploaded archives and retrieves context lazily via LLM function-calling instead of prompt-stuffing entire repositories.
- Implemented a sandboxed Docker compiler service with real multi-language diagnostics, tree-sitter code indexing, and DuckDB/SQLite persistence, and deployed the stack on AWS.

HACKATHON EXPERIENCE

SOF Stambha – Code for Good 2026 - JP Morgan Chase

August 2026

- Built a full-stack student progress-tracking platform for an NGO
- Replaced fragmented, scattered data with a unified dashboard using FastAPI and Supabase
- Implemented an XGBoost model to recommend best-fit career streams and a Gemini-powered chatbot for insights.

CodeReview AI – RL-Based Automated Code Reviewer – Meta AI Hackathon

April 2026

- Directed a 3-member team in developing an automated code review platform for bug detection and optimized fix generation.
- Implemented reinforcement learning workflows with OpenEnv-compatible environments and grading pipelines.
- Integrated FastAPI, PyTorch, and Hugging Face for scalable review generation and evaluation.

AI Tutor Membrain – Agentic Learning Assistant – Membrain AI Hackathon

March 2026

- Coordinated a 4-member team to build an AI tutoring platform with personalized and memory-aware interactions.
- Integrated LLM-driven semantic search pipelines for dynamic knowledge retrieval and adaptation.
- Built a full-stack system with interactive frontend components and backend APIs for adaptive learning workflows.

PROJECTS

HackRunner – Cybersecurity Assessment Platform

Oct 2025 – Present

- Built an AI-powered cybersecurity assessment platform using FastAPI, Supabase, and Ollama Qwen2.5:7B, with dynamic generation and grading of MCQ and short-answer questions.
- Developed role-based dashboards with analytics, leaderboard tracking, and Swagger UI-documented endpoints for validation.
- **GitHub:** [github.com/HackRunner/v1](https://github.com/DE9856/HackRunner)

Gesture Grid – Sign Language Learning App

Oct 2025 – Present

- Built a real-time sign language learning application providing camera-based gesture feedback.
- Trained a CNN model using the ASL Alphabet dataset (26k images).
- Achieved 88% gesture recognition accuracy.
- **GitHub:** [github.com/GestureGrid](https://github.com/DE9856/GestureGrid)

TECHNICAL SKILLS

Languages: Python, Java, C, SQL

Frameworks & Libraries: FastAPI, Flask, PyTorch, Hugging Face, Ollama, React, Express.js, tree-sitter, Vite

Web: HTML, CSS, JavaScript

Databases: MySQL, MongoDB, Supabase, SQLite, DuckDB

Cloud & DevOps: AWS, Docker, Docker Compose, Kubernetes, Cloudflare Tunnel

Automation & AI Systems: n8n, Telegram Bot API, Whatsapp Bot API, LLM Tool-Calling

Tools: Git, GitHub, VS Code, Trello, WSL (Ubuntu), Jupyter Notebook

CERTIFICATIONS

Programming in Java – NPTEL (IIT Kharagpur) – Scored 100% with Top 1% Distinction (Gold Elite)

100 Days of Code: Complete Python Pro Bootcamp – Udemy (Dr. Angela Yu)

C Programming For Beginners – Master the C Language – Udemy (GeeksforGeeks)

STTP: Foundations of NLP & LLMs

Java Programming and Software Engineering Fundamentals – Coursera (Duke University)