

Denistan B

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EDUCATION

Kumaraguru College of Technology, Coimbatore

Sep 2023 – Present

Bachelor of Engineering in Computer Science and Engineering

8.9 CGPA

PROFESSIONAL EXPERIENCE

Backend Developer

Jun 2025 – Sep 2025

Synvolve Intellis

Remote

- Built a **Node.js and Prisma (PostgreSQL)** e-commerce backend with secure auth and optimized APIs supporting 100+ concurrent users.
- Implemented **ALS-based recommendation system** in Python to improve product relevance and engagement.

AI Engineer

Nov 2025 – Present

September AI

Remote

- Developed **Omni-Channel**, a multi-modal AI backend unifying text, audio, and documents into a single context pipeline.
- Engineered **Embedding-based context routing** for structured interaction history and improved LLM reasoning.

AI/ML Engineer

Apr 2024 – Present

iQube (Innovation Center)

Remote

- Promoted to **Level 2 AI Developer**, contributing to real-world systems including **Roller Defect Detection** and **BMS for TSS Boat**, alongside active participation in hackathons and technical events.
- Currently developing an **Automatic Tennis ball launcher** and working on the **Quanser Car project** for applied robotics and control systems.

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, TypeScript

AI Frameworks: Scikit-Learn, Computer Vision - TensorFlow, Keras, Ultralytics YOLO, OpenCV, Pytorch, NLP - Transformers, Hugging Face, SentenceTransformers, RAG, LangChain, Model Context Protocols

Web & App Frameworks: Node, Express, React, Streamlit, Flask, FastAPI, Django, REST APIs, Tkinter

Databases & Developer Tools: MySQL, MongoDB, PostgreSQL, Neo4j, Redis, Git, GitHub, Docker, AWS, VSCode, Postman

Core CS Concepts: Data Structures & Algorithms, OOPS, DBMS, Operating Systems, Networking, Linux

Certifications: C, C++, Python (Bharat Sevak Samaj), Complete ML & DS (Udemy), AI-ML (Google for Developers), ML, Cloud and Gen AI Foundations, ML for NLP (AWS), Introduction to MCP (Anthropic)

PROJECTS

Roller Defect Detection | Python, OpenCV, YOLOv8, Tkinter, MySQL

July 2025 – Nov 2025

- Developed a **YOLOv8-based real-time detection system** to identify roller defects such as rust, dents, and surface damage.
- Built a **Tkinter GUI integrated with MySQL** for visualization, defect tracking, analysis, and reporting.

Connective AI Platform | Python, AI Agents, MCP, FastAPI, React

Nov 2025 – Dec 2025

- Built a **multi-tool AI chat platform** using **MCP** integrating GitHub, Notion and Google Services MCP Servers.
- Implemented an **LLM-driven backend** with **FastAPI** and **Gemini 2.0 Flash** for tool routing.

Fake IC Detection | Python, OpenCV, YOLOv8, PaddleOCR, React, MySQL

Sep 2025 – Oct 2025

- Developed a **Computer Vision-based system** to detect counterfeit ICs using image analysis and classification techniques.
- Developed an **Interactive Web interface using React** for real-time inspection, visualization, and automated authenticity verification.

HONORS & AWARDS

Python Coding Contest Winner (1st) - Secured top rank in an inter-college contest organized by Neo Colab in collaboration with KCT

Kriya 2026 IdeaSpark - Winner (1st Prize) for developing an innovative solution with strong technical design and practical impact

Innovation Build Hackathon - Finalist among 30 competing teams and secured internship based on performance

LeetCode - Solved **350+** Data Structures & Algorithms problems demonstrating strong problem-solving consistency

Mahatma Gandhi Merit Scholarship - Awarded for sustained academic excellence across consecutive **3** academic years 2023–24, 2024–25, 2025–26

S N Bose Award (RIDE) - Recognized for Emerging Excellence in Innovation (2025–26)

Certificate of Recognition - KI - Recognized for academic and co-curricular excellence for the academic year 2025–26

Hacktoberfest - Contributed one pull request to an open-source project and collaborated through the community review process.