

NIKITTA K S

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EDUCATION

Coimbatore Institute of Technology

Integrated Masters in Artificial Intelligence and Machine Learning

October 2021 – Present

National Model Matric Higher Sec School

Class 12th, Percentage - 87.3%

June 2020 – April 2021

SKILLS

Programming languages: Python; Databases: SQL

AI Skills: OCR, NLP, STT

Libraries/Frameworks: Pandas, NumPy, Matplotlib, TensorFlow

Web Skills: HTML, CSS(Tailwind), JavaScript (React, Node)

WORK EXPERIENCE

Raarya, Coimbatore (Freelance)

AI Engineer Intern

December 2024 – April 2025

- Designed and developed an AI-powered voice assistant for a real estate company using ElevenLabs TTS and STT to deliver natural, human-like conversations in Tamil, replacing traditional BPO-based communication.
- Integrated Retrieval-Augmented Generation (RAG) with Google Gemini to enable intelligent, context-aware voice responses based on a structured real estate knowledge base, allowing the assistant to answer client queries about pricing, location, and property features accurately in real time.

Finari Services Private Limited, Chennai (Hybrid)

Full Stack Developer Intern

July 2024 – November 2024

- Engineered a geolocation-based access control system, automated speech-to-task conversion (AWS Transcribe + Gemini Flash 1.5), and developed NLP-driven support tools (ticket prioritization, recommendation engines) also automated test case generation from RTMs to enhance security and operational efficiency.
- Built OCR automation for document processing, conducted automated vulnerability assessments (AWS Inspector), and developed predictive models for customer churn risk and lifetime value (CLTV) to drive data-driven retention strategies and security enhancements.

PROJECTS

TOVA AI – AI Agent (Text-to-SQL)

- Built an AI-powered Text-to-SQL agent that supports creating, deleting, altering, and analyzing SQL queries in MySQL. Included features like smart query suggestions, example data previews, and automatic table structure summaries.
- Integrated Ollama, Gemini to convert natural language into SQL queries, and displayed visualized query results to support clear, AI-assisted data exploration and decision-making.

Visionary UI – AI Powered Design-to-Code Converter

- Developed a React web app using Gemini AI to convert images, sketches, text, and voice inputs into responsive HTML/CSS, featuring real-time voice-to-code transcription with AWS Transcribe and WebSocket integration.
- Built a Node.js/Express backend with WebSocket support for live updates and file processing, and implemented modern UI features like dark mode, canvas sketching, and interactive previews.

Food Delivery App

- Developed a full-stack food delivery web app using the MERN stack, featuring product listings, user authentication, order management, and secure admin controls, with Stripe API integration for payments.
- Designed a responsive React frontend with Tailwind CSS and built RESTful backend APIs using Node.js, Express, and MongoDB to handle user, product, and order data efficiently.

ACHIEVEMENTS

NPTEL Certification in Ethical Hacking

Secured a position within top 30 teams in Zarthon – **Amrita Vishwa Vidyapeetham (Top 30 of 708)**

100 Days of Code: Complete Python Pro Bootcamp – **Udemy**

Full Stack Web Development – **DevTown**

Participated in Melinia Hackathon 2024 – **Coimbatore Institute of Technology**