

# NIKITTA K S

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## EDUCATION

### Coimbatore Institute of Technology

Integrated Masters in Artificial Intelligence and Machine Learning

CGPA: 7.4/10 (as of 8<sup>th</sup> Sem)

October 2021 – Present

### National Model Matric Higher Sec School

Class 12<sup>th</sup>, Percentage - 87.3%

June 2020 – April 2021

## SKILLS

Programming languages: Python; Databases: SQL, SQLite

AI Skills: OCR, NLP, STT, TTS

Libraries/Frameworks: Pandas, NumPy, Matplotlib, TensorFlow

Web Skills: HTML, CSS, 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, replacing traditional BPO-based communication.
- Integrated Retrieval-Augmented Generation (RAG) with Google Gemini, 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.

## 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 Zarithon – **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**