Nithesh M

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Education

Chennai Institute of Technology, B.E Computer Science and Engineering   Sep 2023 – April 2027
- CGPA: 8.3/10

Experience

Google AI-ML Virtual Internship, Google for Developers   July 2024 - Sep 2024
- Completed a structured AI/ML internship by Google and EduSkills, gaining hands-on experience with supervised/unsupervised learning, model training, and real-world applications

Google Android Developer Virtual Internship, Google for Developers   Oct 2024 – Dec 2024
- Completed a virtual internship by Google and EduSkills, developing Android applications using Kotlin, focusing on modern app architecture, UI design, and real-world functionality.

Web development Internship, DLK Technologies   Nov 2024 – Dec 2024
- Completed a web development internship at DLK Technologies, developing full-stack web applications using React.js for the frontend and Node.js with Express.js for the backend, including RESTful API integration and dynamic UI rendering.

Projects

Eye Controlled Mouse | Python, OpenCV, MediaPipe FaceMesh, PyAutoGUI
- Developed an AI-based mouse control system that uses **eye gaze for cursor movement** and **blink detection for clicking**, enhancing accessibility.
- Integrated **MediaPipe FaceMesh** and **OpenCV** to extract real-time eye landmarks and map gaze to screen coordinates.
- Implemented **automatic click simulation** by measuring blink distance using facial landmarks (points 145 & 159).

Real-Time Crime Detection System Using AI/ML | Machine Learning, Python, Artificial Intelligence
- Developed a **real-time surveillance software** that detects weapons (e.g., knives, guns) using a custom-trained deep learning model.
- Trained an object detection model on a curated dataset to recognize potential threats with high accuracy.
- Enhanced public safety by enabling **automated threat monitoring** via surveillance camera feeds.

Personal Portfolio Website| React, Next.js
- Designed and developed a **responsive personal portfolio** website to showcase projects, skills, and experience.
- Built using **Next.js** and **React**, with **Tailwind CSS** for modern UI and responsive design.

Technical Skills

• C	• C++	• Python	• Java	• JavaScript
• HTML	• CSS	• React.js	• Node.js	• Next.js
• OpenCV	• Git	• GitHub	• DBMS	• SQL

Certifications

NPTEL Cloud Computing: Gained hands-on understanding of virtualization and cloud services.
Introduction to Cybersecurity: Certified by Cisco Academy in cybersecurity fundamentals.
Cybersecurity Essentials: : Completed Cybersecurity Essentials course covering core security principles and practices.
Fundamentals of Generative AI: Understood how Generative AI supports creativity, automation, and productivity across industries.
Machine Learning Onramp : Covering core ML concepts and workflows using MATLAB.

Competitive Programming

LeetCode: Max rating 1,693 , Top 39.22%, Solved 200+ problems, Achieved highest rank in Weekly Contest 432
CodeChef: Max Contest rating 1265, Solved 50+ problems, demonstrating strong problem-solving skills.

Volunteering

- **Events Team – UI/UX Design:** Worked as part of the organizing team for a UI/UX design competition, contributing to event planning and coordination.
- **Event Member – Seed Start (Hackerz):** Led SeedStart, an entrepreneurial pitching event with 200+ submissions, managing screening to shortlist the top 10. Coordinated industry outreach, securing 4 experts for the jury panel.