M Kopika

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Professional Summary

Motivated and detail-oriented aspiring software engineer with a solid foundation in AI, ML, DL, and DSA. Experienced in full stack web development using HTML, CSS, JavaScript, React.js, and Node.js. Proficient in Python, Java, C, and C++, with a strong focus on UI/UX design. Known for effective problem-solving, strategic thinking, and a commitment to teamwork, driving projects to successful completion.

Education

Vellore Institute of Technology   *Sept 2022 – July 2026*
Bachelor of Technology in Computer Science and Engineering with Specialization in AI and ML
- CGPA: 8.54

Toc-H Public School   *June 2008 – June 2022*
High School Diploma
- CGPA: 95.2

Experience

Software Developer Intern   *Chennai, India*
FLSmidth   *June 2024 – July 2024*
- Worked in photogrammetry, image processing, 3D reconstruction, and modeling for mining equipment defect analysis. The project also included damage-cost analysis, dashboard creation, and web and app design for both desktop and iOS platforms.

Certifications

- **The Data Science Course: Complete Data Science Bootcamp 2024** - *Udemy*
- **Microsoft Certified Azure AI Fundamentals** - *Microsoft*
- **Entrepreneurship Essentials** - *NPTEL*
- **Figma UI UX Design Essentials** - *Udemy*

Achievements

- **Semi-Finalist** - *Innovate Carlo Rino - UPM UI/UX Competition*
- **Participant** - *GPT-4o: Code & Conquer - InferAllAi*

Projects

Carlo Rino Reengineered Fashion Website   *Figmafolio* ↗
- Redesigned Carlo Rino's website in Figma with a luxury-focused UI. Collaborated on an interactive hero section, responsive product pages with advanced filters, and integrated blog, contact, and social media features to boost engagement and performance.
- Tools Used: Figma

Multi-Class Abnormality Detection in Video Capsule Endoscopy Images   *github.com/* ↗
- Developed a CNN-based ensemble model to automate frame analysis in Video Capsule Endoscopy (VCE), reducing manual workload for gastroenterologists and improving efficiency in GI diagnostics.
- Tools Used: Python, Tensorflow, Sklearn

MeetMate – AI-Powered Virtual Meeting Assistant *github.com/* ↗

- Built an AI-powered tool for generating meeting summaries, minutes, and transcripts from recordings. Integrated with Google Calendar API to automate follow-ups, leveraging NLP and Speech-to-Text to boost post-meeting workflow efficiency by 40
- Tools Used: Python, Google Calendar API, Natural Language Processing, Azure Speech-to-Text API, OpenAI, HTML, CSS, Javascript, Redis

Pothole Detection using Image Processing *github.com/* ↗

- Developed a pothole detection system using Canny edge detection and contour analysis in OpenCV. Processed high-res images from vehicle-mounted cameras with noise reduction and color space transformations. Enabled real-time alerts for drivers and notifications to authorities, supporting smart city infrastructure.
- Tools Used: OpenCV, Python

Technologies

Languages: Python, Java, C, C++, SQL, R, MySQL

Web Development and UI/UX Technologies: HTML, CSS, JavaScript, React.js, Node.js, Express.js, UI UX Design, Figma

AI and Analytical Technologies: Azure AI, Machine Learning, Deep Learning, Creativity, Critical Thinking, Problemsolving, Time management, Adaptability, Teamwork