Karthik B

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SUMMARY

Computer Science & Engineering student specializing in AI & ML, passionate about building innovative tech solutions. Skilled in C, C++ and Python. Proactive learner with hands-on project and internship experience. Eager to explore new technologies, solve real-world problems, and grow in dynamic, collaborative environments.

EDUCATION

Bachelor of Engineering – Computer Science and Engineering (Artificial Intelligence and Machine Learning) Mangalore Institute of Technology & Engineering	2022 - Present	CGPA: 9.12
Senior Secondary(12ᵗʰ) - KV1 Mangalore	2020 - 2022	Percentage: 84.0%
Secondary School (10ᵗʰ) – KV1 Mangalore	2017 - 2020	Percentage: 88.0%

SKILLS

Languages   : C, C++, Python
Interface   : HTML, CSS
Framework : React
Database   : SQL, MongoDB
Tools   : VS Code, PyCharm, MySQL, Solid Edge, Power BI, Tableau, Codeblocks

INTERNSHIP

Codelabs Systems | Frontend Developer   October 2024 - January 2025

Technologies: React JS

Gained hands-on experience in Front-end Development with React JS, strengthening my creative and problem-solving skills in building web applications. Focused on implementing efficient CRUD operations and designed a user-friendly online purchasing platform during my internship.

PROJECTS

- **AI-Powered Navigation and Text to Speech Assistive Device**   February 2025 – Present
  For The Visually Impaired

  This project introduces an AI-powered assistive device designed to improve mobility and independence for visually impaired individuals. Unlike traditional aids such as canes and guide dogs, it offers real-time object recognition and contextual awareness. The device is lightweight, portable, and functions without the need for cloud-based processing, ensuring ease of use and reliability.

- **Full-Stack Chatbot using Google Gemini & MySQL**   June 2025 - July 2025

  Tech Stack: Next.js, TypeScript, Tailwind CSS, Google Gemini API, Prisma, MySQL (Railway), NextAuth,Vercel
  Built and deployed a full-stack AI chatbot web application Integrated NextAuth for secure user authentication and stored login details per user in a cloud-hosted relational database. Deployed the app on Vercel with environment-based config management.

COURSES & WORKSHOPS

- **Programming in Java**, NPTEL, 2025
- One day workshop on **'Generative AI & Prompt Engineering',** 2025
- One day workshop on **'Innovative Web Application Development using Angular Framework',** 2025
- **Mastering Multi-Agent AI:Building Intelligent Collaborative System,** IUCEE,2024-25
- **Introduction to Machine Learning,** NPTEL, 2024
- **Artificial Intelligence for All,** IUCEE,2024
- **Programming, Data Structures and Algorithms using Python**, NPTEL,2023

ACHIEVEMENTS AND ACTIVITIES

- Participated in **'Prompt Wars'** conducted by Zerone, MITE, 2025
- Participated in **'ZECODER'** conducted by Zerone, MITE, 2024
- Participated in **'Hack Heist 2.0'** conducted by Dept of Computer Science, MITE, 2024
- Participated in the **'Bug Bounty'** at Tech Yuva 2025, organised by Srinivas University.
- Served as the part of team in the Drug Awareness Campaign(NSS Activity), 2024