

Karthik E.M

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🌐 <https://github.com/Karthik-EM> | 💼 <https://linkedin.com/in/karthik-e-m-33449a292>

Skills

Languages: C/C++, Python, HTML, CSS, JS, SQL

Frameworks: Flask

Tools: Git, GitHub, VS Code, Google Colab, VirtualBox

Operating Systems: Windows, Linux (basic usage & CLI)

Education

Adi Shankara Institute of Engineering and Technology, Kalady

2022 – 2026

B.E. in Computer Science and Engineering

CGPA: 8.01/10

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Web Programming

Brahmanandodayam, Kalady

2020 – 2022

Higher Secondary Education (Computer Science) – State Board

Percentage: 95.66%

Academic Projects

- **Blind Navigation using Vision-Language Models(2025):** Built an assistive tool for the visually impaired by combining object detection (DETR), monocular depth estimation (UniDepthV2), and a vision-language model (Qwen-VL) to generate spatially-aware scene descriptions. Developed an accessible web app with TTS and chat support.
Tech Stack: Python, PyTorch, Flask, OpenCV, Qwen-VL, HTML/CSS
GitHub: <https://github.com/TEAM-5-PROJECTS/Vision-assistant>

Personal Projects

- **Interactive BIOS-Themed Portfolio Website(2025):** Designed and developed a personal portfolio themed after a retro BIOS setup screen using only HTML, JavaScript and CSS. Implemented section hover animations, SVG icons, and audio effects for an immersive UI/UX experience.
Tech Stack: HTML, CSS, JavaScript
GitHub: <https://karthik-em.github.io/WEBSITE/>