

Vaishnavi Sawant

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Profile

Computer Engineering student with experience in web and Android development, interested in building simple and useful applications. Good at teamwork, and learning through projects and practical experience.

Education

Course	Institute	CGPA / %
B.E. Computer Engineering	Don Bosco Institute of Technology	8.85
Diploma in Information Technology	Vidyalankar Polytechnic	89.94%

Projects

College Projects

Career360 – AI Career Guidance Platform

- Built AI-powered career guidance app using gamified assessments for personalized recommendations.
- Used Mamdani Fuzzy Logic, Random Forest, K-Means, O*NET, and ranking models.

AirSwipe – Gesture-Based Computer Control

- Built final-year diploma project using Python, OpenCV, and MediaPipe for gesture recognition control.
- Enabled hands-free computer operations through real-time hand movement tracking system.

DBIT College Bookstore Website

- Built website using HTML, CSS, JavaScript, and Firebase for book access.
- Won runner-up in mini-project competition with real-time database integration.

External Projects

eslint-plugin-ai-guard

- Built open-source TypeScript + ESLint plugin to detect AI-generated code issues.
- Developed Node.js CLI using TypeScript, Commander.js, Vitest, npm, and tsup.

Dentist Website – Dental Essential

- Built responsive and SEO-friendly dental clinic website with booking system.
- Developed using Next.js 15, React 19, Tailwind CSS 4, and Formspree API.

Smart Alumni Connect – Alumni Engagement Platform

- Built full-stack platform using Next.js, React Native, Node.js, and MongoDB.
- Added mentorship, job posts, payments, AI discovery, and real-time chat.

AlgoMaster – Algorithm Visualization Platform

- Developed web platform for OS, DAA, Networks, and Automata simulations.
- Built using Next.js and deployed project successfully on Vercel.

Technical Paper

AirSwipe – International Journal of Research Publication and Review

- Published research paper on AirSwipe, a vision-based hand gesture control system using Python, OpenCV, and MediaPipe.
- Designed accurate real-time gesture recognition model for touchless Human-Computer Interaction (HCI).

Areas of Interest

Cloud Computing

- Load Balancing
- Cloud Application Development
- Identity & Access Management (IAM)

Extracurricular Activities

Baking
Travel

Achievements

InnoQuest 2024 – Recognized for innovative project contribution at Don Bosco Institute of Technology.

24-Hour Hackathon – Won 1st Prize for full-stack solution at Shri Bhagubhai Mafatlal Polytechnic & College of Engineering.