Vaibhav Bhosale

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EDUCATION

2022 - 2026 Vishwakarma Institute of Information Technology, Pune

Bachelor of Technology in Electronics and Telecommunication

(GPA: 7.88)

Work Experience

• Indian Air Force (9 BRD), Pune

Jan 2025- June 2025

Project Intern

- · Developed a React-based interface to display real-time thermal and visual inspection results, integrating AI model predictions (KNN, SVM, Autoencoder) via REST APIs to dynamically render defect overlays across 20+ PCB samples.
- · Deployed the **frontend on Jetson Nano & Raspberry Pi**, integrating it with the inspection pipeline to enable faster defect validation and reduce manual inspection **time by 30**%
- · Implemented advanced state management and real-time image rendering in the **React interface**, enabling seamless overlay of AI-based defect results during live inspections.

PROJECTS

• VirtueHireX-AI Mock Interview | Next.js, Gemini, PostgreSQL, Razorpay

GitHub 🖸 | Demo 🗹

- · Integrated Google Gemini to generate job-specific interview questions, enable real-time video/audio recording, and provide AI-driven feedback with actionable improvement suggestions and performance ratings.
- · Implemented robust user authentication and authorization via Clerk for secure access. Designed responsive user interface using Nextjs, TailwindCSS and Shadon.
- · Optimized data storage and retrieval with **Neon PostgreSQL** and **Drizzle ORM** for scalability and reliability, while integrating **Razorpay** for seamless and secure payment processing.
- Blended Model for SAR Image Classification | Python, Tensorflow, CNN, SVM GitH

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- · Developed and implemented a hybrid model combining Convolutional Neural Networks (CNN) and Support Vector Machines (SVM) for accurate classification of Synthetic Aperture Radar (SAR) images.
- · Achieving superior performance, the CNN+SVM model delivers 99% accuracy, 99.14% precision, and 99.16% recall, outpacing other models in both accuracy and classification robustness.
- · Classified military vehicles (e.g., 2S1, BRDM 2, BTR60, D7, SLICY, T62, ZIL131, ZSU) to enhance ATR performance and advanced SAR imagery.
- ChatterBox Chat App | MERN, Socket.io, Daisy UI, Tailwind CSS

GitHub ♥ | Demo ☑

- Integrated **Socket.io for real-time messaging** and online user status updates. Created **authentication** and authorization using **JWT** to ensure secure access. Developed robust **error handling** on both the server and client sides.
- · Utilized **TailwindCSS** and **Daisy UI** for a modern, responsive, and visually appealing user interface. Managed global state with **Zustand** for efficient **state management** across the application.

TECHNICAL SKILLS

Languages: C++, Java, Javascript, Python, MySQL

Technologies/Framework: Node.js, Bootstrap, Express.js, MongoDB, React.js, Next.js, Tailwind CSS PostgreSQL,

Git, GitHub, Kanban

Developer Tools: VS Code, Android Studio, Jira, Eclipse, keil uVision

EXTRACURRICULAR

EESA (Electronic Engineering Student Association)

Sept 2023 - Oct 2024

Joint Event Management Head — Organized department-level event during college technical fest

I2IC (Institute to Industry Connect)

Oct 2023 - Oct 2024

 $Council\ Member$ —Volunteered for campus placement drives at VIIT and VIT

Profile Links