

ESHAN BHUSE

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SUMMARY

Full Stack Developer with experience in building scalable applications, AI-powered tools, and collaborative software solutions. Skilled in modern web technologies and backend frameworks, and a strong focus on problem-solving.

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript

Frontend Tools: React.js, Tailwind CSS, npm, CDN

Backend Tools: Node.js, Express.js, Django, Flask

Developer Tools: VS Code, IntelliJ Idea Ultimate, Tableau, Git, GitHub, Excel, Google Colab

DataBases: MYSQL, MongoDB

WORK EXPERIENCE

SBI General

Jun 2025 – Present

Graduate Engineering Trainee

Mumbai, India

- Designed and developed new applications by gathering business requirements, writing efficient code, and collaborating with cross-functional teams, resulting in solutions that streamlined processes.
- Managed the full production release cycle, including planning deployments, executing rollouts, verifying stability, and providing post-production support, ensuring smooth transitions to deployment.
- Conducted detailed User Acceptance Testing (UAT) by preparing test cases, executing scenarios, logging defects, and coordinating with stakeholders, which ensured that applications met functional expectations.
- Monitored and supported existing applications by proactively tracking performance, identifying and resolving issues, and ensuring system stability with minimal downtime, which improved overall reliability for end-users.

PROJECTS

AIVADENT - AI-Enabled Clinical Support for Modern Dentistry 🔗

Jun 2023 – Dec 2023

- Built a Full-Stack dental appointment management system with Next.js, Node.js, PostgreSQL, and Clerk, supporting user authentication, booking flow, admin dashboard and payment gateway.
- Integrated an AI Voice Agent using Vapi to enable conversational appointment scheduling and real-time assistance for patients and along with instant feedback for the users.
- Implemented payment gateway, email verification, and automated invoices, improving user experience and operational efficiency.

Multi-Disease Diagnosis System using Clinical Data 🔗

Jan 2024 – Nov 2024

- Built a Multi-Disease Diagnosis System using Flask (backend) and React (frontend) to predict conditions like diabetes, heart disease, and kidney disease from patient health parameters.
- Trained multiple machine learning models (such as Logistic Regression and Random Forest) using real medical datasets, and saved them as .pkl files for real-time predictions via REST APIs.
- Integrated and deployed the complete application — React frontend and Flask backend on Vercel enabling secure, fast, and accurate disease prediction accessible through a web interface.

Vision-Based Cursor Navigation through Dynamic Mouse Gestures 🔗

Feb 2025 – Oct 2025

- Engineered a real-time vision-based cursor control system leveraging deep learning-driven gesture recognition to map dynamic hand and mouse movements into precise cursor trajectories with sub-50ms latency.
- Implemented advanced feature extraction pipelines using MediaPipe, OpenCV, and TensorFlow, integrating gesture classification, and Kalman filtering for noise reduction and smoother motion tracking.
- Optimized the gesture-to-cursor mapping algorithm through adaptive sensitivity tuning and temporal motion analysis, significantly improving accuracy, responsiveness, and user experience in non-contact interaction.

PRACTICE PROJECTS

• Portfolio Website 🔗

• AI - Powered Interview Preparation 🔗

• Expense Tracker 🔗

• Vampyrion-Eclipse (Game) 🔗

EDUCATION

Sardar Patel Institute of Technology

B.Tech in Computer Engineering CGPA - 7.55

2021 – 2025

Mumbai, India

ACHIEVEMENTS & CERTIFICATIONS

- Semi-Finalist at Tata Imagination Challenge 2024. 🔗
- Developing Soft Skills and Personality. 🔗
- Ultimate AWS Certified Cloud Practitioner 🔗