

# ESHAN BHUSE

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## SUMMARY

Full Stack Developer with experience in building scalable applications 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, Flask

**Developer Tools:** VS Code, IntelliJ Idea Ultimate, Power BI, Git, GitHub, Excel, Jupyter Notebook

**DataBases:** MySQL, MongoDB

## WORK EXPERIENCE

### SBI General

Jun 2025 – Present

Mumbai, India

#### Graduate Engineering Trainee

- Built the Spring Boot backend API's that securely sends and retrieves data from IIB with proper validation, logging and error handling which supports the critical workflow for the company.
- Automated the end-to-end submission process, reducing manual effort and human errors. Collaborated with internal teams to integrate the API's into existing systems which ensured smooth deployment
- 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 and coordinating with stakeholders, which ensured that applications met functional expectations.

## 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 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

- Developed a Multi-Disease Diagnosis System using Flask (backend) and React (frontend) to predict conditions like diabetes, heart disease, parkinson's 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 or .sav 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 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

### Expense Tracker

### AI - Powered Interview Preparation

### Vampyrion-Eclipse (Game)

## EDUCATION

### Sardar Patel Institute of Technology

2021 – 2025

B.Tech in Computer Engineering **CGPA - 7.55**

Mumbai, India

## ACHIEVEMENTS & CERTIFICATIONS

### Semi-Finalist at Tata Imagination Challenge 2024.

### Developing Soft Skills and Personality.

### Ultimate AWS Certified Cloud Practitioner