

# Sarvesh Kumbharde

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## Education

**Pune Institute of Computer Technology**

*B.E. in Information Technology*

Nov 2022 – Present

GPA: 7.00 / 10

**Global Public School, Nashik**

*HSC (Class XII)*

2020 – 2021

Percentage: 90.67%

## Internship

**PICT, Pune – Intern**

Feb 2025 – Apr 2025

*Incident Reporting App | React, Node.js, Express, MongoDB, Gemini API*

- Developed a full-stack **Incident Reporting and Management System** enabling users to report civic or safety incidents with image uploads and severity levels
- Implemented **role-based access control (RBAC)** with distinct functionalities for **Admin**, **Authority**, and **User** roles
- Built dynamic **Admin Dashboard** to manage users, view all incidents, and assign cases to respective authorities
- Designed **Authority Panel** for case review, progress tracking, and resolution updates, ensuring accountability and transparency
- Utilized **MongoDB** and **Mongoose** for efficient incident storage, relational mapping, and query optimization
- Implemented backend REST APIs using **Node.js** and **Express.js** for seamless data flow between frontend and database

## Projects

**Real-time Collaborative Code Editor | React, Node.js, Express, MongoDB, Docker, Socket.IO**

- Built a collaborative online code editor supporting **real-time editing** with multiple users working simultaneously
- Implemented **multi-language execution support** (C++, Java, Python, Go, JavaScript) using isolated **Docker containers** for security
- Integrated **WebSockets (Socket.IO)** for live code sharing and instant synchronization
- Containerized the entire application using **Docker Compose** for easy deployment and scalability
- Created syntax highlighting and auto-completion features using Monaco Editor for enhanced developer experience

**E-commerce Website – FOREVER | React, Express, MongoDB**

- Developed a fully responsive e-commerce platform with separate product catalogs for **men, women, and kids**
- Implemented **role-based access control** with distinct authentication flows for users and administrators
- Built comprehensive **admin dashboard** for product management, inventory tracking, and order processing
- Integrated **secure payment gateways** (Stripe and Razorpay) with proper transaction handling
- Utilized **MongoDB** for efficient management of products, user accounts, and order history
- Implemented advanced filtering and sorting features with dynamic search functionality for improved user navigation
- Created shopping cart system with real-time price calculations, discount codes, and order confirmation emails

**Virtual Assistant App | React, Node.js, Express, MongoDB, Web Speech API, Gemini API**

- Developed a voice-enabled virtual assistant with natural language processing capabilities for **real-time interaction**
- Built a responsive React interface with dynamic assistant animations and user-friendly conversation history
- Integrated **voice recognition and text-to-speech** using the Web Speech API for hands-free interaction
- Enabled smart command handling to open websites, search Google/YouTube, show weather, and perform calculations dynamically
- Leveraged **Gemini API** for intelligent query processing and contextual response generation with high accuracy
- Implemented conversation history storage in MongoDB with user authentication for personalized assistant experience

## Technical Skills

- **Core Concepts:** Data Structures & Algorithms | Operating Systems | Computer Networks | DBMS | Object Oriented Programming
- **Languages:** C++ | JavaScript | SQL
- **Frameworks:** React
- **Databases:** MySQL | MongoDB | PostgreSQL
- **Technologies:** Socket.IO | REST APIs | JWT Authentication
- **Tools:** VS Code | Git & Github | Docker

## Achievements

- Solved 400+ problems on Leetcode, strengthening Data Structures and Algorithms
- Secured 99.13 PCM percentile in Maharashtra CET and 96.09 percentile in JEE MAINS