

TANMAY SUBHASH BHADRE

B.Sc. Computer Science Undergraduate | Software & Web Development | AI/ML Explorer

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PROFILE

Computer Science undergraduate building practical web applications and student-focused software. Hands-on experience with frontend development, Node.js/Express backends, MongoDB, REST APIs, Git/GitHub, and cloud deployment workflows. Currently strengthening Python, Java, C, DSA, and AI/ML fundamentals while exploring computer-vision and gesture-based applications. Interested in software engineering, AI/ML, and building useful products from real-world problems.

EDUCATION

B.Sc. in Computer Science — MGM College of Computer Science and Information Technology

2025–2028 (Ongoing) | Affiliated with University of Mumbai

TECHNICAL SKILLS

Programming: Python • Java (Core) • C • JavaScript

Backend & Data: Node.js • Express.js • REST APIs • MongoDB • MySQL (Beginner)

Deployment: Netlify • Railway • Environment/configuration debugging

AI / Computer Vision: AI/ML fundamentals • Hand tracking / gesture interaction concepts

Web: HTML5 • CSS3 • Responsive UI • DOM/Canvas

Developer Tools: Git • GitHub • VS Code • Jupyter

CS Fundamentals: DSA • OOP • Operating Systems • Software Engineering

Other: API integration • Authentication flows • Debugging • Product/UI thinking

SELECTED PROJECTS

StudyMate — Student Notes & AI-Assisted Learning Platform

- Built a student-focused web application for uploading, organizing, searching, and accessing shared notes/PDFs, with plans for note summarization and question-answering over study material.
- Implemented signup/login flows, user dashboard behavior, file-upload workflows, and dynamic data handling without relying on static demo data.
- Worked with HTML, CSS, JavaScript, Node.js, Express, MongoDB, REST-style APIs, CORS, environment variables, and frontend/backend integration.
- Deployed and debugged the application across Netlify and Railway, resolving localhost/production API configuration and authentication issues.

Loan Ledger — Full-Stack Loan Tracking Web Application

- Developed and troubleshooted a production-oriented loan ledger application with a deployed API, MongoDB configuration, JWT-based authentication, and environment-specific settings.
- Diagnosed deployment failures caused by hardcoded backend URLs and production networking/configuration issues, then corrected the frontend-to-backend connection workflow.
- Focused on responsive UI improvements, data integrity, reliable CRUD behavior, and safer production configuration.

CleanDoc / Practical Document Management System — Workflow & Product Design

- Designed a system concept to reduce confusion around college practical files, Word documents, sharing, printing, and subject-wise submission tracking.
- Planned mobile-friendly dashboards, file deletion/management controls, real user-driven data, and safeguards against accidental data loss.
- Iterated on UI/UX requirements and repository/version-control workflow to keep development manageable and reversible.

AirBoard — Gesture-Controlled Virtual Whiteboard

- Designed an interactive study/creativity project where users draw on a virtual whiteboard by moving a finger in the air.
- Explored webcam-based hand tracking, gesture recognition, browser canvas rendering, drawing controls, and responsive interaction design.

Fruit Ninja IRL — Webcam Hand-Tracking Game Concept

- Designed a browser-based entertainment project in which on-screen fruits are sliced using real hand movements captured through a webcam.
- Planned hand tracking, collision detection, canvas animation, scoring, difficulty progression, and game-state logic.

Selfie-Based Event Photo Recognition — Product Concept

- Conceptualized an AI-based platform that uses a selfie to help users find their photos from large event or wedding photo collections.
- Explored the product flow around face recognition, photo matching, privacy-aware access, and event-scale usability.

ADDITIONAL DEVELOPMENT & LEARNING

- Built and maintained a personal developer portfolio featuring projects, skills, education, certifications, learning journey, resume access, and professional contact links.
- Practiced Git/GitHub workflows including cloning repositories, version control, deployment updates, and recovery from problematic iterations.
- Actively learning Python, Java, DSA, web development, APIs, AI/ML, and computer-vision-based interaction through coursework and self-directed projects.

CERTIFICATIONS & ACTIVITIES

- Claude API Fundamentals — course/certification completed.
- Python Programming — course/certification completed.
- Participated in college academic and cultural activities including debate, quiz, poster-making, presentations, and research/PPT work.
- Research presentation: Tourism & Job Creation — examined tourism's role in economic growth and employment.

SOFT SKILLS

Problem Solving • Analytical Thinking • Teamwork • Communication • Presentation • Creativity • Product Thinking • Continuous Learning