SANJANA M PATIL

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Objective

Motivated CSBS undergraduate with strong skills in MERN stack development, REST API engineering, and applied machine learning. Passionate about building scalable products, writing clean and maintainable code, and integrating AI-driven features into real-world applications. Looking for a Software Engineering opportunity to apply full-stack development and ML knowledge in impactful projects.

Education

Bachelor of Technology – Computer Science and Business Systems (CSBS)   2023–2027
Visvesvaraya Technological University, Belagavi
CGPA: 9.2 / 10
Relevant Coursework: Data Structures & Algorithms, OOP, DBMS, OS, Computer Networks

Technical Skills

Programming: Java, Python, JavaScript, DSA, Problem Solving
Full Stack Development: HTML, CSS, React.js, Node.js, Express.js, MongoDB, REST APIs, JWT Authentication
Machine Learning: Regression, Classification, XGBoost, scikit-learn, Data Preprocessing
Tools: Git/GitHub, VS Code, Postman, Basic Docker, Google Colab, API Testing
Concepts: Responsive UI, Database Design, Basic Deployment
Soft Skills: Communication, Teamwork, Leadership, Time Management

Work History

Junior Software Engineer Intern   Aug 2025 – Present
SuPrazo Technologies - Remote

- Working on an AI-driven interview evaluation platform using MERN stack with secure backend APIs and modular React components.
- Implemented role-based authentication and JWT authorization for secure access to recruiter, admin, and candidate portals.
- Integrated WebRTC for real-time video interview sessions, improving performance and user experience.
- Built responsive, interactive dashboards for candidate management, automated shortlisting, and interview analytics.

Projects

Digital Gatepass Generation & Verification System   MERN Stack

- Developed a complete digital gatepass management system for institutions with separate roles for students, faculty, wardens, parents, and security staff.
- Implemented multi-level approval flow, parent OTP verification, and real-time status updates to prevent misuse.
- Integrated QR code–based verification at the gate for fast and secure check-in/ check-out, reducing manual workload for staff.
- Designed user-friendly interfaces that enable smooth request creation, tracking, and approval.

AgriPredict – Crop Recommendation System   Python, XGBoost, Flask

- Built an ML model using XGBoost that predicts the ideal crop based on soil and environmental data with around **99% accuracy**.
- Data cleaning, preprocessing, feature selection, and model optimization.
- Designed a lightweight web interface to allow users to input parameters and receive predicted results instantly.

Self-Chef AI – Intelligent Recipe Generator   MERN, Gemini API

- Created an AI-based platform that generates recipe ideas from ingredients entered by the user.
- Integrated Gemini API to provide step-by-step instructions and relevant YouTube tutorial links.
- Developed a clean, minimalistic UI with responsive design for seamless mobile and desktop usage.

Restaurant Web Application   MERN Stack

- Implemented authentication, user profiles, table booking, order history, and add-to-favorites functionality.
- Designed responsive layouts ensuring consistent visual experience across devices.
- Improved usability with modern UI components and optimized API integration.

Achievements & Certificates

- **Treasure Code – CODINGO 24 (VTU Belagavi)** — Secured **2nd place** among multiple teams for excellence in coding.
- **SuPrathon (National-Level Hackathon)** — Ranked in the **Top 20** teams for building an AI-driven interview analysis app in 36 hours.
- Participated in multiple coding challenges, technical events, and hackathons focused on full-stack and ML problem solving.