

Raviraj Patil

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Portfolio: [Link](#)



Profile

Computer Science and Engineering (Data Science) student with strong proficiency in Java, Python, JavaScript, SQL, and Full-Stack Development (MERN Stack). Experienced in building scalable web applications, REST APIs, and AI-powered solutions using Generative AI, Agentic AI, Retrieval-Augmented Generation (RAG), LangChain, vector databases, and Large Language Models (LLMs). Hands-on experience developing intelligent platforms, including an AI-powered Healthcare Interoperability Platform and a Gym Management System with modern full-stack technologies with integration of AI in it.

Education

KIT's College of Engineering Kolhapur (Empowered Autonomous)

B.Tech Computer Science and Engineering (Data Science)

2023 - 2027

CGPA: 7.85/10.0

Projects

Gym Management System - Full Stack Web Application

Mar 2026

- Built a comprehensive gym management platform using MERN Stack (MongoDB, Express.js, React.js, Node.js) with JWT authentication and role-based access control (RBAC) for Admin, Trainer, and Member portals.
- Developed modules for member registration, membership plans, attendance tracking, workout schedules, diet plans, payment management, invoice generation, and trainer assignment, replacing manual gym operations.
- Implemented an admin dashboard with real-time analytics, membership statistics, revenue insights, and automated reminders for membership renewals and pending payments.
- Integrated WhatsApp communication for instant sharing of invoices, diet plans, workout schedules, and notifications directly to members from the admin panel, improving operational efficiency.
- Designed a scalable REST API architecture with secure CRUD operations, responsive UI, and optimized MongoDB queries, delivering a fast and user-friendly gym management experience.
- [GitHub Repository](#)

YatraAI: Intelligent Train Travel Assistant | *FastAPI, OpenAI GPT, SQLite, HTML, CSS, and JavaScript* **May 2026**

- Engineered an AI-powered travel assistant using FastAPI, OpenAI GPT, SQLite, HTML, CSS, and JavaScript, providing conversational train search, schedule lookup, seat availability, and PNR status services.
- Developed an asynchronous backend with persistent session management and chat history storage, ensuring seamless multi-turn conversations and low-latency responses.
- Created a responsive chat interface with glassmorphism, dark mode, and dynamic UI interactions, enhancing user experience and accessibility.
- Designed the application using a scalable architecture ready for real-world IRCTC/RapidAPI integration, JWT-based security, Redis caching, and cloud deployment, making it suitable for production-grade AI travel solutions.
- [GitHub Repository](#)

NeuralRetail: AI Sales Intelligence Platform | *FastAPI, PyTorch, MLflow, AWS(basics)*

June 2026

- Developed machine learning pipelines for demand forecasting, customer churn prediction, price optimization, and inventory analytics using LSTM, Temporal Fusion Transformers (TFT), XGBoost, and LightGBM.
- Built an interactive Streamlit dashboard with real-time visualizations, KPI tracking, and predictive reports, validated through Pytest and K6 load testing for production-grade reliability.
- [GitHub Repository](#)

Technical Skills

Languages: Java, Python, JavaScript, SQL
AI & LLM: Groq, Prompt Engineering, Agentic AI, HuggingFace
Web & Backend: REST APIs, Node.js, Express.js, React.js, FastAPI
Databases: MongoDB, MySQL
Tools: Git, GitHub, Postman
Certifications: Intern at Infotact Solutions for Junior SDE

Achievements

Successfully completed a Web Development Internship at Infotact Solutions Aug 2025