

Pratik Patil

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PROFESSIONAL SUMMARY

Passionate Full Stack Developer with expertise in designing and implementing scalable web applications using modern technologies. Hands-on experience in React, Node.js, and Flask. Proficient in building responsive user interfaces and RESTful APIs. Committed to writing clean, maintainable code and delivering high-quality software solutions in agile environments.

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, TypeScript, SQL, HTML5, CSS3

Frontend Technologies: React.js, Next.js, Tailwind CSS

Backend Technologies: Node.js, Flask

Databases: MySQL, PostgreSQL, MongoDB, Redis, Firebase

Tools: Git, GitHub, VS Code, npm

PROJECTS

Portfolio Website | React, Vite, Tailwind CSS, Netlify

Dec 2025

- Created personal portfolio website using React and Vite, featuring responsive design and smooth animations.
- Optimized frontend performance with code splitting, lazy loading, and image optimization, reducing initial load time by 40%.
- Deployed on Netlify with automatic deployments from GitHub.

RAG AI Agent | Next.js, Python, LangChain, MongoDB, LLM

Sep 2025

- Developed a RAG pipeline using Python, LangChain, ChromaDB, Flask, and LLMs for PDF ingestion, embedding generation, and context retrieval.
- Implemented PDF parsing, recursive text chunking, and nomic-embed-text embeddings using Ollama Embeddings for accurate vector search.
- Built REST APIs (/upload, /chat) with Flask, CORS, structured JSON responses, and robust error handling.

Drawcal | React, Vite, Python, MongoDB

Dec 2024

- Added base64 image upload, OCR, and real-time image processing to extract handwritten and math expressions.
- Constructed secure auth flow using Google OAuth2, JWT, and session management with MongoDB.
- Integrated Gemini AI for handwritten/math expression extraction with a custom JSON-cleaning and error-handling pipeline.

EDUCATION

D.Y. Patil Technical Campus, Faculty of Engineering

Talsande, Maharashtra

Bachelor of Technology in Computer Science and Engineering

Nov 2022 – May 2026

Karmaveer Bhaurao Patil Junior College

Urun-Ishwarpur, Maharashtra

12th (HSC), Maharashtra State Board

2020 – 2022

Adarsh Balak Mandir High School

Urun-Ishwarpur, Maharashtra

10th (SSC), Maharashtra State Board

2020

CERTIFICATIONS

2025 Python Bootcamp | Advanced Python Programming

2025