

Praveen Singh Rawat

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EDUCATION

University School of Automation and Robotics

B.Tech in Artificial Intelligence and Machine Learning — CGPA: 8.2/10

New Delhi, India

Nov. 2022 – July 2026

EXPERIENCE

CWxAI (cwxai.in)

Jan 2025 – May 2025

Full-Stack AI Developer

- Built an AI-driven platform for startup validation using Retrieval-Augmented Generation (RAG) and real-time external data sources
- Developed responsive frontend with Next.js, improving usability and performance
- Architected an end-to-end report rendering pipeline, converting AI-generated insights into structured JSON via backend APIs and transforming them into interactive, responsive visual dashboards on the frontend
- Integrated Razorpay for secure international payment processing
- Contributed to platform growth, scaling to 100+ users across 12 countries and generating 230+ automated reports

National Informatics Center (NIC)

June 2024 – July 2024

Full-Stack Developer Intern

- Modernized a government inspector tracking system using Laravel, MySQL, and JavaScript
- Implemented secure authentication and role-based access control for sensitive government data
- Designed and developed admin and inspector dashboards with real-time data updates
- Built document upload and permission-controlled access workflows
- Improved operational efficiency through structured backend APIs and database optimization

PROJECTS

Conversational Sales Agent (Multilingual, Voice + Text) | *FastAPI, React, Langchain, Pinecone, Gemini, Murf AI*

- Built STT → intent → LLM → TTS conversational pipeline for 15+ languages.
- Integrated LangChain + Gemini for context-aware, personalized conversations
- Implemented semantic retrieval using Hugging Face embeddings and Pinecone vector database
- Delivered a full-stack production system with FastAPI backend and React frontend

Intelligent Blog Content Pipeline (RAG + LLMs) | *Python, Flask, OpenAI GPT, Google Alerts, Web Scraping*

- Built an automated AI content generation pipeline powered by external signals (Google Alerts + web scraping)
- Designed multi-stage LLM workflows for outline generation, long-form drafting, summarization, and tone adaptation
- Implemented tone adaptation and SEO-optimized internal linking algorithm
- Created REST APIs in Flask to deliver ready-to-publish blog drafts

Real-Time Communication Platform | *React, Node.js Express, MongoDB, Socket.IO*

- Built scalable chat platform enabling secure communication with multiple users
- Implemented JWT-based authentication and secure session handling
- Enabled image uploads and media sharing using Multer
- Designed real-time messaging and notifications using Socket.IO

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML/CSS

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

Backend & APIs: Node.js, Flask, FastAPI, Laravel, REST APIs, JWT Authentication

AI / LLM Systems: Retrieval-Augmented Generation (RAG), LangChain, Hugging Face, Embeddings

Machine Learning: TensorFlow, PyTorch, scikit-learn, OpenCV

Databases: MySQL, MongoDB, Pinecone (Vector Database)

Developer Tools: Git, VS Code, PyCharm, Jupyter, Postman, Figma

APIs / Integrations: Razorpay, Google Custom Search API, OpenAI API