

# Praveen Singh Rawat

+91 8920859827 | [psrwt.github.io](https://psrwt.github.io) | [praveensingh.connect@gmail.com](mailto:praveensingh.connect@gmail.com) | [linkedin.com/in/praveensinghrawat](https://linkedin.com/in/praveensinghrawat)

## 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](https://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