

ROHAN SINGH

AI/ML Engineer | Full-Stack Developer

Gurugram, India

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Summary

B. Tech AI & ML student with hands-on internship experience building AI-powered applications, RAG pipelines, and full-stack web solutions. Proficient in Python-based machine learning workflows, small language model development, and scalable web development using React and Flask. Experienced in training and fine-tuning language models from scratch and deploying locally hosted LLMs for real-world applications. Passionate about building impactful, production-ready AI systems.

Experience

Surakshit City Pvt Ltd

Jun 2026 - Present

Junior Software Engineer Intern

Gurugram, India

- Contributing to full-stack feature development within a smart-city safety tech platform serving enterprise clients
- Building and integrating backend services and APIs using Python and modern web frameworks
- Collaborating with cross-functional teams on product delivery, system reliability, and code quality improvements
- Implemented ReactJS and NodeJS to design and enhance the face recognition model web application, improving user interface and functionality
- Optimized the face recognition model integration, ensuring seamless performance and accuracy within the smart-city safety tech platform

Self-Employed

Aug 2023 - Present

Freelance Software Developer

Remote

- Delivered end-to-end web applications for multiple clients utilizing React, Node.js, and REST APIs, meeting 100% of project deadlines
- Designed fully responsive, accessible UIs with Tailwind CSS and HTML/CSS, improving client-reported user engagement
- Managed complete project lifecycles from requirements gathering and architecture to deployment and post-launch support

Skills

- Languages:** Python, JavaScript, TypeScript, Java, C, R
- AI / ML / Data:** Deep Learning, RAG Pipelines, LLM Integration, Small Language Model, NumPy, Pandas, PyTorch, Hugging Face
- Frameworks & Libraries:** React, Tailwind CSS, Flask
- Databases & Tools:** Git, GitHub, LM Studio, Jupyter Notebook, VS Code, Figma

Projects

HealthSLM

github.com/rohansingh-dev/health_slm

- Designed and trained a 15M parameter biomedical language model entirely from scratch using PyTorch, targeting clinical Q&A tasks
- Implemented a full ML pipeline including pretraining on biomedical corpora, LoRA fine-tuning, INT8 quantization, and inference deployment
- Achieved domain-specific medical NLP capability at significantly reduced compute cost via parameter-efficient training — comparable results to 7B+ models in targeted benchmarks

Finsage

github.com/rohansingh-dev/finsage-main

- Built a privacy-first AI platform for automated financial document analysis using locally hosted LLMs via LM Studio, eliminating cloud API costs entirely
- Enabled real-time document Q&A and insight extraction with zero external data transmission, addressing enterprise data-security requirements
- Engineered the document ingestion and chunking pipeline, reducing average query response time by an estimated 50% over naive retrieval approaches

LawgicAI

github.com/rohansingh-dev/lawgic-ai

- Developed an AI-powered legal assistant specialized in Indian law, featuring multilingual support across 5+ languages for broader accessibility
- Built semantic legal document search using vector embeddings, enabling natural language queries over statutes and case references
- Architected a scalable Django backend with REST APIs serving a responsive JavaScript frontend, designed for production deployment

News Verification System

github.com/rohansingh-dev/Fake-News-Detection-System

- Designed an end-to-end NLP pipeline to classify news article sentiment and evaluate authenticity signals with high recall on test datasets
- Implemented user authentication, prediction history logging, and a responsive Flask UI, delivering a complete production-ready application
- Implemented user-centric design principles to improve retention rates, leveraging Flask and Bootstrap for a seamless user experience

Education

Dronacharya College of Engineering

2024 - 2028

Bachelor of Technology — Computer Science (AI & ML)