

Chitransh Saxena

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SUMMARY

AI Engineer who architects and ships agentic AI systems end-to-end, turning ambiguous, evolving products into reliable, production-ready systems. Owns technical decisions independently, balancing accuracy, speed, and long-term maintainability.

EDUCATION

Manipal University, Jaipur <i>B.Tech in Computer Science Engineering CGPA: 8.04</i>	Jaipur, India 2022 – 2026
Chethana PU College (Deeksha) <i>Pre-University Course (PUC) Percentage: 87%</i>	India 2020 – 2022

TECHNICAL SKILLS

Programming & Fundamentals: Python, C++, SQL, Data Structures & Algorithms [200+ LeetCode], Statistical Analysis, System Design

AI/ML Frameworks & Agentic Systems: TensorFlow, PyTorch, Scikit-learn, Keras, Hugging Face, LangGraph, RAG, Multi-Agent Orchestration, Prompt Engineering, NLTK, OpenCV

Backend & Infrastructure: FastAPI, Flask, Qdrant, Redis, Docker, REST APIs, Multi-Tenant Architecture, Git, CI/CD, AWS

Specializations: Deep Learning (CNN/RNN/GAN), Computer Vision, NLP, Transfer Learning, Knowledge Graphs, Model Optimization

EXPERIENCE

Engineering Intern (Direct Founder Track) <i>Jnanik AI</i>	Apr 2026 – Jul 2026 <i>Bengaluru, Remote</i>
- Architected core retrieval and memory components of jnanik-core-agents, a multi-tenant conversational AI system (LangGraph, FastAPI, Qdrant, Redis) for an acoustic water-leak detection client - Owned end-to-end design and implementation of 9+ core system capabilities, including hierarchical retrieval, knowledge-graph-augmented retrieval, and HyDE-based query expansion, working directly with founding engineers on architectural decisions - Built and ran a structured QA evaluation framework to benchmark response quality against a competing system, driving iterative prompt and retrieval refinements	
Software Development Engineer Intern <i>TetraNoodle Technologies</i>	Aug 2024 – Oct 2024 <i>Canada, Remote</i>
- Deployed 5+ production-ready ML models with complete MLOps pipeline including containerization, CI/CD automation, and model monitoring on Hugging Face [Model Link] - Fine-tuned large language models for domain-specific tasks, achieving 30% improvement in inference accuracy through hyperparameter optimization - Engineered automated ML workflows for sales optimization and marketing analytics, reducing manual data processing overhead by 70%	

PROJECTS

CKD-GAN-Augmentation: Deep Learning for Medical Imaging <i>TensorFlow, PyTorch, Keras, GANs, Transfer Learning, SMOTE</i>	GitHub Jan 2026
- Developed hybrid data augmentation framework using ACGAN and SMOTE for chronic kidney disease classification from CT scans with 97%+ accuracy - Implemented transfer learning with VGG16, EfficientNetV2, and MobileNetV2 architectures, conducting comparative analysis across original and synthesized datasets - Engineered end-to-end deep learning pipeline for medical image analysis including preprocessing, feature extraction, model training, and evaluation on imbalanced datasets	
AI-Assisted Web Scraper with Semantic Search <i>React, Node.js, Flask, FastAPI, Gemini AI, ChromaDB, LLMs</i>	GitHub Jul 2025
- Built production-grade AI application integrating large language models with vector databases for semantic search and intelligent content rewriting at 94% accuracy - Designed RESTful API endpoints for real-time NLP inference and embedding generation, implementing efficient caching strategies for low-latency responses - Optimized ML inference pipeline through batching and parallel processing, achieving 70% reduction in computational overhead and improved throughput	

CERTIFICATIONS & LEADERSHIP

Certifications:

- Machine Learning Specialization – DeepLearning.ai and Stanford Online
- Advanced Learning Algorithms – DeepLearning.ai and Stanford Online
- Supervised Machine Learning – DeepLearning.ai and Stanford Online
- Unsupervised Learning – DeepLearning.ai and Stanford Online
- Cancer Image Detection With PyTorch – IBM Developer

Position of Responsibility:

- Vice President, Cyber Space Club – Led 500+ member tech community (2024-25)
- Senior Technical Coordinator, Cyber Space Club – Manipal University Jaipur (Jun 2023 – May 2024)

Achievements:

- Student Excellence Award (Semester VI, 2024-2025)
- Dean's List Excellence in Academics (Semester II, 2022-2023)
- Top 30 Finalist – Deloitte Capstone Project (out of 200+ teams)
- Runner-up – Smart India Hackathon 2024