

Abhinav Kumar Chaudhary

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PROFESSIONAL SUMMARY

AI Engineer with hands-on experience building production-grade Machine Learning, NLP, and LLM-powered RAG systems. Delivered real-world AI products including multilingual document chatbots and dual-mode RAG pipelines with measurable business impact. Proficient in Python, FastAPI, LangChain, and FAISS. Takes full ownership from model development through deployment and thrives in fast-moving, high-impact environments.

WORK EXPERIENCE

AI/ML Engineer Intern | ScholarRank AI | Remote

May 2025 – August 2025

- Engineered and optimized ML models using Python, Scikit-learn, and Pandas by applying advanced feature engineering, preprocessing, and hyperparameter tuning to achieve a 15% uplift in predictive accuracy.
- Collaborated in a 5-member AI team to architect and ship API-based ML automation solutions, cutting system processing time by 30% and improving scalability across multiple product modules.

PROJECTS

FormSathi — AI Document Understanding & Multilingual Chatbot [\[DEMO\]](#) [\[GitHub\]](#) Jan 2026 – Feb 2026

Python | Tesseract OCR | Groq LLM | RAG | FastAPI | LangChain | NLP

- Architected an AI document pipeline combining Tesseract OCR and LLM-based field detection to auto-extract and structure data from unstructured government forms, integrated with dynamic form generation and an automated PDF pipeline with digital signature support.
- Built a multilingual RAG chatbot (English, Hindi, Bengali, Tamil, Marathi) using Groq LLM and LangChain, delivering context-aware eligibility Q&A and expanding reach across 5 regional language groups.

LexiMind AI — Dual-Mode Conversational & Document-Aware RAG [\[DEMO\]](#) [\[GitHub\]](#) Mar 2026

Python | FastAPI | LangChain | FAISS | HuggingFace Embeddings | JavaScript

- Designed a dual-mode AI system supporting general LLM chat and document-grounded RAG that auto-switches on upload by chunking content, generating HuggingFace embeddings, and indexing into FAISS; semantic retrieval significantly reduces hallucinations.
- Delivered real-time streaming responses and stateful multi-turn conversations via a FastAPI backend and JavaScript frontend, enabling seamless Q&A over both open-domain knowledge and user-uploaded documents.

TECHNICAL SKILLS

Languages & Databases: Python, SQL, MySQL

Machine Learning: Supervised Learning, Unsupervised Learning, Regression, Classification, Clustering, Ensemble Methods, Feature Engineering, Hyperparameter Tuning, Predictive Modeling

Deep Learning & NLP: CNN, RNN, LSTM, Transformers, NLP, Text Classification, Prompt Engineering

LLM & RAG Systems: Retrieval-Augmented Generation (RAG), LangChain, LLM Agents, FAISS, Vector Databases, HuggingFace Embeddings, Groq LLM, OCR (Tesseract)

Frameworks & Libraries: FastAPI, Flask, Streamlit, Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib

Tools & Platforms: Git, GitHub, Google Colab, Jupyter Notebook, Power BI

EDUCATION

Bachelor of Technology (B.Tech) — Information Technology

Aug 2022 – May 2026

Noida Institute of Engineering and Technology (NIET), Greater Noida, India

CERTIFICATIONS & LEADERSHIP

- Python for Data Science, AI & Development — IBM / Coursera
- Data Scientist (Python) — NCET+
- Data Science & Machine Learning Training — My Anatomy
- Head Coordinator, Green Gold Society (NIET) — drove 30%+ engagement growth across 1,000+ students.
- Team Lead, Mera Kisan App & 2+ projects — directed 5-member Agile teams across full development lifecycle.