

RITIK KUMAR GUPTA

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ABOUT ME

Machine Learning Engineer with 10+ AI projects specializing in scalable GenAI and deep learning systems. Proven expertise in building production-ready APIs using PyTorch, FastAPI, and LangChain. Strong foundation in agentic AI workflows, full-stack development, and cloud deployment using Docker and modern DevOps practices.

EDUCATION

Galgotias College Of Engineering And Technology

B.Tech - Artificial Intelligence And Machine Learning

November 2022 - August 2026

Greater Noida, Uttar Pradesh

TECHNICAL SKILLS

Languages: Python, Java, C, C++

Frameworks: TensorFlow, PyTorch, Scikit-Learn, LangChain, LangGraph, FastAPI, MCP servers

FrontEnd: React.js, HTML, CSS, JavaScript, Tailwind CSS, Streamlit

DevOps and cloud: Docker, GitHub Actions, Vercel, HuggingFace Hub, Netlify, Streamlit cloud

Databases: SQLite, MySQL, PostgreSQL

Tools/Platforms: Jupyter Notebook, VS Code, GitHub, Pandas, Numpy, Matplotlib, Seaborn, Langsmith

Other: RestAPIs, Model Deployment, Web Scrapping, Data Structures And Algorithms, API Integration

EXPERIENCE

Independent ML Developer

September 2023 - Present

- Deployed production-ready AI APIs using **FastAPI** and **Docker** for scalable inference.
- Built **GenAI** and Agentic AI workflows using Langchain and Hugging Face Transformers.
- Integrated **LLM-powered agents** for text understanding, risk scoring, and personalized recommendations using **LangChain** and **LangGraph**.
- Designed interactive dashboards with **React**, **Tailwind CSS**, and **Recharts** for real-time visualization and PDF/JSON export.

PROJECTS

MediSure AI | [🔗](#) | Python, Numpy/Pandas, FastAPI, React, LangGraph, OpenAI API key, PyPDF2

- Developed a full-stack AI-powered medical report analyzer with React frontend and FastAPI backend, analyzing 500+ medical reports with 95 accuracy in extracting key health metrics
- Implemented intelligent risk assessment engine using LangGraph workflows, converting unstructured medical data into structured risk scores across 8 health categories (cardiovascular, diabetes, kidney function, etc.)
- Integrated a **chat-based AI health assistant** that interacts with users to explain results and provide personalized medical interpretations.

YouTube Video Summarizer | [🔗](#) | Python, FastAPI, React, NLP, Streamlit, youtube-transcript-api, Docker, GitHub

- Developed a **full-stack application** using React (frontend) and FastAPI (backend) that generates concise summaries of YouTube videos.
- Implemented **video transcript extraction** and **natural language processing** to create accurate and context-aware summaries.
- Designed a user-friendly **React** interface allowing users to input video links and receive instant summaries.
- Optimized backend performance for **fast response times** and **scalable API handling**

Credit Fraud Detection System | [🔗](#) | Python, Kafka, PostgreSQL, PyTorch/XGBoost, FastAPI, React, Docker

- Built a full-stack fraud detection system with **React frontend** and **FastAPI backend**, enabling users to upload transactions and receive instant fraud predictions.
- Developed a **React dashboard** to display transaction analytics, visualize suspicious activity, and highlight model-based fraud insights.
- Integrated **XGBoost fraud detection model** with a React interface, allowing interactive exploration of transaction data and predictive analytics in real-time.
- Deployed the application for easy access and seamless usage by multiple users simultaneously.

CERTIFICATIONS

- AI and ML Bootcamp - Udemy [View](#)
- CampusX - Python, Machine Learning, Deep Learning, FastAPI, Pydantic, GenAI, Agentic AI, MCP Servers