Ritik Kumar Gupta

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ABOUT ME

AI and Machine Learning Engineer with expertise in **Python, Deep Learning, and Machine Learning frameworks** such as **PyTorch, TensorFlow, and Scikit-learn**. Skilled in building and deploying **AI-powered solutions**, including **Generative AI** and **Agentic AI** applications using **LangChain, LangGraph, and other LLM frameworks**. Strong foundation in **Data Structures and Algorithms (DSA)** and experienced in **real-time data processing, model optimization, and scalable API deployment** with **FastAPI and Docker**.

EDUCATION

Galgotias College Of Engineering And Technology **November 2022 - August 2026**
B.Tech - Artificial Intelligence And Machine Learning *Greater Noida, Uttar Pradesh*

TECHNICAL SKILLS

Languages: Python,Java, C, C++
Frameworks: TensorFlow, PyTorch, Scikit-Learn, LangChain, LangGraph, OpenAI API, FastAPI, Docker
Databases: SQLite, MySQL, PostgreSQL
Tools/Platforms: Jupyter Notebook, VS Code, Git, GitHub, Vercel, Hugging Face, Docker, Streamlit
Other: JSON, Web Scrapping, Data Structures And Algorithms, API Integration,Pandas,Numpy

EXPERIENCE

Independent AI and Machine Learning Projects **September 2023 - Present**
Technologies - Python, PyTorch, TensorFlow, FastAPI, Docker, LangChain, LangGraph

- Created scalable APIs with **FastAPI** and containerized models using **Docker** for easy deployment and scaling.
- Built and deployed **Generative AI applications** leveraging LangChain, LangGraph, and Hugging Face Transformers for LLM-powered workflows.
- Worked on **research-driven projects** in maxillofacial trauma and facial aesthetics, applying deep learning techniques for medical data analysis.
- Implemented a **Movie Recommender System** using Python and the **TMDB Movie API**, integrating data preprocessing, similarity algorithms, and a user-friendly interface for personalized recommendations.

PROJECTS

Laptop Price Prediction | GitHub | Python,Scikit-learn,Numpy,Pandas,Streamlit,JupyterNotebook,Docker

- Performed **data preprocessing and feature engineering** including handling missing values, encoding categorical variables, and feature scaling using **Pandas** and **NumPy**.
- Built an interactive **Streamlit** web application for real-time prediction with a user-friendly interface.
- Deployed the Streamlit app for easy access and demonstration of prediction results.

Medicine Recommender System | GitHub | Python,Numpy,Pandas,Scikit-Learn,Streamlit,Jupyter Notebook

- Developed an intelligent **Medicine Recommender System** to suggest personalized medication options based on user-entered symptoms and health data.
- Implemented **a robust recommendation engine** using **NLP techniques (TF-IDF and Cosine Similarity)** and optional machine learning models to match medicine use cases and review-based rankings.
- Built an interactive and responsive interface using **Streamlit**, enabling real-time predictions with an intuitive user experience.
- Deployed the system for fast, secure, and scalable access, ensuring smooth usage across multiple devices.

Movie Recommender System | GitHub | Python, Numpy, Scikit-Learn, Pandas, Streamlit,Tmdb APIs, Git

- Built a personalized **Movie Recommendation System** using **TMDb API** to fetch and display real-time movie data.
- Implemented a **content-based filtering algorithm** to recommend movies based on user-selected preferences and similar content.
- Built an interactive and responsive interface using **Streamlit** for an engaging user experience.
- 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