Karan Rana

📧 [karan.rana@aiinfox.com](mailto:karan.rana@aiinfox.com) |   
📍 Kullu, India | GitHub: https://github.com/Karanaiinfox

# Career Objective

Dynamic and results-driven Generative AI/LLM/NLP Engineer with proven expertise in Python, AI/ML, and advanced language model implementations.

Seeking a challenging opportunity where I can leverage my deep understanding of cutting-edge technologies to develop impactful AI solutions that exceed organizational goals.

# Proven Expertise

* Langchain Development: Integrated GPT-4 with Retrieval-Augmented Generation (RAG), custom tools, and agents.
* LLM Frameworks: Experience with LangGraph, CrewAI, and Autogen for building advanced language models.
* Backend API Integrations: Skilled in integrating LLM APIs like GPT-4, Claude3, LLama3, Mistral, Google Gemini, and Groq models, with Langsmith for evaluation.
* Model Fine-Tuning: Expertise in fine-tuning open-source models like Mistral-7b, LLAMA3.1, LLAMA3.2.
* Vector Databases: Hands-on experience with Pinecone, FAISS, ChromaDB, QDrant, and Weaviate.
* LLM Deployment: Deployed models using Amazon Bedrock, SageMaker, EC2, and LangServe.
* Chatbot Development: Implemented LLM-based chatbots on Slack, WebEx, WhatsApp, Telegram, and Discord.
* Advanced AI Techniques: Proficient in Chain-of-Thought, reAct, and iterative prompting for improving LLM results.
* Frameworks: Integrated LLMs with FastAPI, Streamlit, Flask, and Django.
* NLP Tasks: Experienced in sentiment analysis, text summarization, text classification, and TTS/STT generation.
* Predictive Modeling: Developed bots for forecasting forex prices using data analysis and predictive modeling.
* Computer Vision: Proficient in image segmentation, object detection, Stable Diffusion, and Generative Adversarial Networks (GANs).

# Professional Experience

## Companies As Software Developer Expert I worked with:

AiInfox Pvt. Ltd. — Mohali  
Ariespro Technologies Pvt. Ltd. — Chandigarh

Theta Academy — Chandigarh  
Netmax Technologies — Chandigarh

- Developed Python-based applications for data science and machine learning tasks.  
- Implemented Django Framework for web development, integrating SQL databases for managing complex workflows.

# Education

## B.Tech (CSE)

Himachal Pradesh Technical University — Himachal Pradesh  
07/2018 - 06/2022

## Data Science Certification

Netmax Technologies — Chandigarh  
03/2022 - 07/2022

# Technical Skills

* Programming Languages: Python, C++, JavaScript, SQL, HTML, CSS
* Frameworks: Django, Flask, FastAPI
* AI/ML Libraries: TensorFlow, PyTorch, Scikit-learn
* Databases: MySQL, PostgreSQL
* Tools: Docker, Kubernetes, AWS, Azure
* CRM: HubSpot Champion with expertise in inbound marketing and CRM/CMS Hubs
* AI Models: Open-Ai, Meta Llama, Mistral .

# Projects

## Global Workforce Management (09/2023 - Present)

Django-based project for managing human capital.

## Help My House (01/2023 - Present)

Utility management project to reduce electricity losses, using machine learning models.

# Additional Skills

HubSpot CRM Champion: Former Inbound Marketing Strategist for a Platinum HubSpot agency. Highly trained in CRM, Marketing, and CMS Hubs, specializing in portal optimization and website conversion audits.

Website Development: Experience in building robust backend systems and deploying applications using Docker and Kubernetes on cloud platforms.

# Languages

* Hindi: Professional Working Proficiency
* English: Professional Working Proficiency
* Punjabi: Limited Working Proficiency