VIKAS JHA

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linkedin ⋄ github ⋄ portfolio

EDUCATION

Master of Computer Applications, IGNOU
Bachelor of Computer Applications, GGSIPU

SKILLS

Programming : Python, Data-structure, OOPs, Deep Learning, LLMs, Transformers, Generative AI, Langchain, Linux, Git, Docker, FastAPI, Pytorch, NLP, Regex, Hugging Face, Apache Airflow, MLflow.

EXPERIENCE

Bolster AI 09/2023 - Present
Researcher

· Developed an active ML algorithm for real-time global data scanning with **99%** precision,enhancing threat detection accuracy in cybersecurity workflows.
· Implemented GPU-accelerated LLM solutions (Azure, Hugging Face) using H100 & A1000, reducing inference time by **40%** and boosting production efficiency.
· Optimized memory usage by **35%** and improved model accuracy by applying **QLoRA and PEFT** during large-scale model fine-tuning and deployment.
· Reduced production latency by 30% by enhancing data ingestion pipelines and integrating scalable automation frameworks for secure deep learning model deployment.

eClerx 01/2022 - 09/2023
Senio Analyst

· Engineered data pipelines using **Python, SQL, and Airflow**, boosting data processing speed by **30%** across analytics teams.
· Applied **Regex and NLP techniques** to extract patterns from unstructured documents, increasing data accuracy by **25%** for ML readiness.
· Supported model development by preparing high-quality datasets for machine learning workflows.

PROFESSIONAL PROJECTS:

Phishing and Scam Detection Tool:

· Developed an intelligent phishing and scam detection system, leveraging LLMs, Google Dorking, web scraping, and SerpAPI to automate query generation with 20% human-free utilization.

· Improved detection accuracy by 30% using Retrieval-Augmented Generation (RAG) and relevance scoring, delivering insights in structured formats and a user-friendly interface.

App Download Finder Script:

· Developed an LLM-integrated script for multi-modal analysis, automating 90% of app download page detection.

· Optimized workflows using text, vision, and HTML analysis, reducing processing time by 40% for 50+ URLs.

· Achieved 95% automation with real-time logging and reporting for reliable decision-making.