

HASHAM AKRAM

Lahore, Pakistan

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AI/ML Engineer driving impactful solutions with expertise in NLP, CV, GenAI leveraging MLOps and data-driven Machine Learning. Focused on orchestrating cutting-edge AI systems dynamically.

Skills

- **Programming Languages:** Python, R, FastAPI, C++, SQL, Django, JavaScript
- **ML/DL Libraries & Frameworks:** PyTorch, TensorFlow, Scikit-learn, HuggingFace Transformers, LangChain, LangGraph
- **MLOps & Cloud:** AWS (SageMaker, Lambda, Bedrock), GCP (VertexAI, Cloud Run), Docker, Git, MLflow, DVC, Kubernetes, CI/CD (GitHub Actions), Prometheus
- **Data Science Toolkit:** Pandas, NumPy, NLTK, Matplotlib, SciPy, Playwright
- **Core AI/ML:** NLP, Computer Vision, Deep Learning (Transformers, Generative AI incl. Diffusion Models PEFT/LoRA for LLMs, Agentic AI), Scientific Machine Learning
- **Databases:** MySQL, MongoDB, Pinecone, ChromaDB, Qdrant, Weaviate

Experience

Sprouto Groups

AI & ML Engineer

May 2025 – Present

Lahore, Pakistan · On-Site

- Built an AI-Human document classification pipeline using fine-tuned Gemma-3B, BERTa, and QLoRA (logits ensemble) as instruct; integrated with Gemini API for hybrid predictions, achieving 90% accuracy and 0.90 F1-score.
- Deployed FastAPI microservice on GCP Cloud Run via Docker for scalable, low-latency inference.
- Led 100% automation of social media lead-generation using LangGraph agents, LLM APIs, and real-time web scrapers (Selenium, Playwright), reducing manual intervention by 90%.

AXON Technologies

Machine Learning Engineer

Nov 2024 – May 2025

Lahore, Pakistan · On-Site

- Developed and deployed ML models (XGBoost, Random Forest) on AWS SageMaker, improving R^2 by 30% and streamlining multi-disease models, reducing complexity by 40%.
- Automated model inference with AWS Lambda & EventBridge, boosting efficiency by 25%, while CloudWatch monitoring ensured 99.9% uptime. Integrated ML predictions into user interfaces, enhancing engagement by 30%.
- Built and deployed AI agents on Amazon Bedrock for multi-purpose tasks, including generating custom contracts between two signing parties, reducing contract generation time by 50% and improving accuracy by 35%.

iNeuron.ai

Data Science Intern

Jan 2024 – Feb 2024

Bengaluru, India · Remote

- Improved energy efficiency by 40% by developing predictive models for energy management, construction, and structural planning, enabling data-driven decision-making. 

Projects

Kidney Multi-Disease Classification | VGG-16, TensorFlow, DVC, MLflow, DagsHub, CI/CD, Pytest

Aug 2023

- Built a web app for multi-disease kidney classification from MRI images using VGG-16 (80% acc). Implemented robust MLOps with DVC, MLflow on DagsHub, CI/CD pipelines, and pytest for validation. 

Galaxy Morphology Classification | ViT, ResNet, Pytorch, Diffusion Models, Galaxy Zoo Dataset

Dec 2024

- Enhanced galaxy morphology classification on Galaxy Zoo, leveraging diffusion models for data augmentation and achieving 63% with Vision Transformers (ViT) by systematically progressing from VGG-16 and ResNet. 

Next Word Prediction Using Bidirectional LSTMs | Python, Tensorflow

Jul 2023

- Achieved 86% accuracy, enhancing text prediction user experience through advanced NLP techniques. 

Translation Using Seq2Seq Attention PyTorch Model: Trained on a diverse dataset comprising 25,000 English-to-Urdu sentence pairs, improving accuracy above 70% on Cross val. 

Wheat Crop Detection: Implemented a Fast-RCNN model for agricultural monitoring to efficiently assess wheat crop health and density. 

Education

Govt. College University, Faisalabad

Sep 2019 – Aug 2023

Bachelor's in Physics | Linear Algebra, Calculus, Probability

CGPA: 3.35/4.0