

HASHAM AKRAM

Lahore, Pakistan

+923249709214 hashamakram50@gmail.com linkedin.com/in/hasham-akram

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, Llama Index
- MLOps & Cloud:** AWS (SageMaker, Lambda, Bedrock), Docker, Git, MLflow, DVC, Kubernetes, CI/CD (GitHub Actions), pytest
- Data Science Toolkit:** Pandas, NumPy, NLTK, Matplotlib, SciPy
- 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

Experience

AXON Technologies

Nov 2024 – Present

Machine Learning Engineer

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%.

CodSoft

Mar 2024 – Apr 2024

Machine Learning Engineer Intern

Kolkata, West Bengal, India · Remote

- Decreased fraudulent transactions by 30% (annual savings of \$1 million) by implementing a credit card fraud detection model achieving 98% accuracy.
- Enhanced email campaign efficiency by developing an SMS/Email spam classification model with 95% precision and 92% recall.
- Reduced customer churn by 20% (saving \$500,000 annually) by developing a predictive model achieving 85% accuracy.

iNeuron.ai

Jan 2024 – Feb 2024

Data Science Intern

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.

Fake News Detection: Built a detection system using MNB, PAC, RF, LR, and XGBoost, achieving 87% accuracy.

Education

Govt. College University, Faisalabad

Sep 2019 – Aug 2023

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

CGPA: 3.35/4.0