HASHAM AKRAM

Lahore, Pakistan

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Data Scientist merging expertise in Machine Learning, Physics, and advanced techniques like NLP, Computer Vision, and Generative AI. Hands-on in LLMs, Cloud Deployment, and Vector Databases, with a focus on Scientific Machine Learning and algorithm optimization. Driven to create innovative, impactful solutions at the intersection of science and technology.

Skills

- **Languages:** Python, C++, Javascript, SQL
- **MLOps:** AWS, Sagemaker, Docker, Git, MLflow
- **Data Tools:** Numpy, Pandas, Matplotlib, Scipy
- **ML Techniques:** PyTorch, TensorFlow, NLP, Computer Vision, Transformers, HuggingFace
- **Soft Skills:** Problem-solving, Teamwork, Leadership

Experience

AXON Technologies　　　　　　　　　　　　　　　　　　　　　　**Nov 2024 – Present**
Machine Learning Engineer　　　　　　　　　　　　　　　　*Lahore, Pakistan · On-Site*

- Developed and deployed ML models (XGBoost, Random Forest) for regression/classification tasks on AWS SageMaker, achieving R^2 improvement by 30%.
- Streamlined multi-disease models into two focused outcomes, maintaining accuracy and reducing complexity by 40%.
- Collaborated with cross-functional teams to integrate machine learning predictions into user interfaces and local databases, enhancing user engagement by 30%.
- Automated model inference with Lambda and EventBridge, enhancing prediction efficiency by 25%. Utilized AWS CloudWatch for real-time model monitoring, ensuring 99.9% uptime of endpoints.

CodSoft　　　　　　　　　　　　　　　　　　　　　　　　　　**Mar 2024 – Apr 2024**
Machine Learning Engineer Intern　　　　　　　*Kolkata, West Bengal, India · Remote*

- Developed a model with 85% accuracy, reducing churn by 20% and saving $500,000 annually.　　[GitHub]
- Achieved 95% precision and 92% recall, enhancing email efficiency.　　[GitHub]
- Attained 98% accuracy, leading to a 30% decrease in fraudulent transactions, saving $1 million yearly.　　[GitHub]

iNeuron.ai　　　　　　　　　　　　　　　　　　　　　　　　**Jan 2024 – Feb 2024**
Data Science Intern　　　　　　　　　　　　　　　　　*Bengaluru, India · Remote*

- 40% improvement in energy efficiency through predictive modeling, enabling data-driven decision-making for enhanced energy management, construction, and structure planning.　　[GitHub]

Projects

Kidney Multi-Disease Classification | *VGG-16, TensorFlow, DVC, MLflow, DagsHub*　　　　**Aug 2023**

- Built a web app for multi-disease kidney classification from MRI images using VGG-16, achieving 80% accuracy. Integrated DVC and MLflow for experiment tracking on DagsHub.　　[GitHub]

Galaxy Morphology Classification | *ViT, ResNet, Pytorch, Galaxy Zoo Dataset*　　　　**Dec 2024**

- Progressively developed models from VGG-16 to ResNet to Vision Transformers (ViT) for classifying galaxy morphologies, achieving 48-52 to 63% improvements in accuracy on the Galaxy Zoo classification

Next Word Prediction Using Bidirectional LSTMs | *Python, Tensorflow*　　　　**Jul 2023**

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

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.　　[Github]

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

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　　　　　　　　　　　　　　　　　　　　　　*CGPA: 3.35/4.0*