

# HASHAM AKRAM

Lahore, Pakistan

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Enthusiastic Data Scientist with a deep passion for the intersections of Data Science, Machine Learning and Physics. I thrive in applying advanced techniques such as NLP, Computer Vision, and Generative AI to tackle complex, interdisciplinary problems. My work spans across Scientific Machine Learning, algorithm optimization, and cutting-edge solutions like LLMs, Cloud Deployment, and Vector Databases. With a strong foundation in physics and a commitment to continuous learning, I enjoy pushing the boundaries of innovation and developing impactful solutions that blend science and technology.

## Skills

- **Languages:** Python, C++, SQL, HTML/CSS
- **Cloud & DevOps:** AWS, Docker, Git, Jenkins, MLflow
- **Data Tools:** Numpy, Pandas, Matplotlib, Scipy
- **ML/DL Libraries:** PyTorch, TensorFlow, Scikit-learn, Keras, HuggingFace
- **Soft Skills:** Problem-solving, Teamwork, Leadership
- **Frameworks:** Streamlit, Flask, LangChain, Llama Index
- **ML Techniques:** NLP, Computer Vision, Transformers, PINNs, PCA

## Experience

### CodXo

Jul 2024 – Aug 2024

Artificial Intelligence Engineer Intern

Noida, Uttar Pradesh, India · Remote

- Fake News Detection: Built a detection system using MNB, PAC, RF, LR, and XGBoost, achieving 87% accuracy.
- Auto-Correct Tool: Developed a grammar and spell correction tool using a pre-trained Transformer model and spell checker, reducing 70% grammatical mistakes. [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]

### 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]

### Next Word Prediction Using Bidirectional LSTMs | Python, Tensorflow

Jul 2023

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

### Chicken Disease Classification | VGG-16, TensorFlow, Docker, AWS, Azure, CI/CD

Jun 2023

- Developed a web app using VGG-16 in TensorFlow/Keras for chicken disease detection, achieving 96% accuracy. Deployed on AWS and Azure with Docker and CI/CD. [Github]

## Education

### Govt. College University, Faisalabad

Sep 2019 – Aug 2023

Bachelor's in Physics

CGPA: 3.35/4.0

## Certifications

### Machine Learning & Deep Learning Specialization

2024

DeepLearning.AI - Andrew Ng