# Hasham Akram

Lahore, Pakistan
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Passionate Data Scientist with expertise in the intersections of Data Science, Scientific Machine Learning, and algorithm optimization tools. With a strong foundation in Machine Learning, NLP, Computer Vision, and Generative AI, I have successfully leveraged Deep Learning, Cloud Deployment, Vector databases, and LLM frameworks to tackle real-world challenges. As a Data Science tutor, I am committed to continuous learning and applying my skills to create impactful solutions.

## Education

**Govt. College University, Faisalabad** **Sep 2019 – Aug 2023**
*Bachelor's in Physics* *CGPA: 3.35*

## Skills

- **Programming Languages:** Python, C++, HTML/CSS
- **Frameworks & Tools:** Pytorch, Numpy, SQL, TensorFlow, LangChain, Llama Index, Streamlit, Flask,
- **AI/ML Techniques:** NLP, Computer Vision, Transformers, PINNs
- **Soft Skills:** Analytical thinking, Problem-solving, Teamwork, Effective Communication

## Experience

**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.

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

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

**CodXo** **Jul 2024**
*Artificial Intelligence Engineer* *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.
- 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.

## 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.

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

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

**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.

## Certifications

**Machine Learning & Deep Learning Specialization** **2024**
*DeepLearning.AI - Andrew Ng*