

# ASAD KHALID

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## Experience

### AI Trainee – Knowledge Streams (Partnership with Samsung)

October 2024 – Present

*Knowledge Streams*

*Lahore*

- Receiving hands-on training in cutting-edge AI technologies, including Generative Adversarial Networks (GAN), Convolutional Neural Networks (CNN), Neural Networks (NN), and Recurrent Neural Networks (RNN). Focused on machine learning, deep learning, and model development for real-world applications, contributing to innovative AI solutions.

### AI/ML Intern

August 2024 – October 2024

*Systems Limited*

*Pakistan*

- I collaborated with my team to optimize data workflows, improve query performance, and facilitate seamless data access for ML and analytics projects.
- We used AWS to deploy data storage solutions, automate data processing tasks, and monitor data infrastructure for reliable operations.
- We integrated deep neural network models into the data pipelines, ensuring efficient data pre-processing, model training, and model serving in production environments.
- Researched deep learning models (ESRGAN, SwinIR, RRDB), benchmarking for accuracy, speed, and quality. Leveraged pre-trained or proprietary models for optimized image upscaling across various domains.

### Artificial Intelligence Lab Demonstrator

Feb 2023 – July 2023

*FAST, NU*

*Islamabad*

- I guided students through hands-on labs focused on machine learning and artificial intelligence concepts, including model development, training, and evaluation using real-world datasets.
- Provided support to students by explaining complex AI techniques, troubleshooting code, and offering insights on best practices for implementing neural networks and other AI models.

## Projects

### Scalable Web Application on AWS | EC2, RDS, VPC, ELB, Auto Scaling, IAM

April 2024

- Designed and implemented a highly available and scalable web application architecture on AWS, utilizing services such as EC2, RDS, VPC, ELB, and Auto Scaling.
- Demonstrated proficiency in AWS cloud computing, network security, and resource optimization through successful deployment and management of a functional web application with distributed load across multiple servers.

### Innovative Game for Cognitive Skill Enhancement and Symptom Management for ADHD | Unity, Blender 3D

- Cutting-edge ADHD Treatment: Created an innovative game to revolutionize ADHD treatment.
- Dynamic and Visual Excellence: Platform that engages individuals in enhancing their cognitive skills.

### Image Detection Model | TensorFlow, CNN, CIFAR-10 dataset

November 2023

- Developed a sophisticated AI model for precise image detection, showcasing expertise in model design and image recognition.
- Utilized techniques such as data pre-processing, model optimization, and training-validation processes contribute to the high performance of the AI model.

### LSTM | Python, RNN, BPTT

May 2023

- Successfully developed a state-of-the-art LSTM text classifier model for seamless English-to-Urdu translation.
- Showcasing exceptional expertise in natural language processing and deep learning.

## Education

### Bachelor of Computer Science

*Majors in Artificial Intelligence (AI) and Cloud Computing*

*FAST, National University, Islamabad*

## Technical Skills

**Languages:** Python, Java, C, HTML/CSS, JavaScript, C++

**Technologies/Frameworks:** Matplotlib, Data Wrangling, AWS, AWS Lambda, NLP, Tensorflow, Pytorch, AWS EC2, AWS Cloudtrail, AWS Cloudwatch, AWS KMS, AWS S3, AWS RDS, Scikit-Learn, Keras

## Certifications

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AWS Academy Cloud Security Builder  
AWS Academy Cloud Foundations

## Hobbies and Interests

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- Volunteering, Fitness Activities, Watching Anime