

Abdul Aziz Bin Musaed Bin Julowi St., 11131, Riyadh

🛘 (+966) 53-9935-783 | 💌 ahmad786.writes@gmail.com | 🏕 ahmad786writes.github.io | 🖸 ahmad786writes | 🛅 ahmad786-writes

"Don't watch the clock; do what it does. Keep going."

## Summary.

Result-oriented artificial intelligence engineer with more than 3 years of experience specializing in NLP, computer vision, and generative Al. Experienced in building scalable AI solutions, fine-tuning large language models, and deploying end-to-end pipelines with tools like TensorFlow, PyTorch, and Hugging Face. Recognized for innovative projects, including sketch-to-image conversion, text-to-audio generation, and chatbot optimization. Passionate about delivering impaction AI solutions that enhance efficiency and creativity.

### **Education**

**GIFT University** Gujranwala, Pakistan

BACHELOR'S OF SCIENCE IN COMPUTER SCIENCE

2019 - 2023

- Related Coursework: Machine Learning, Artificial Intelligence, Natural Language Processing, Data Structures and Algorithms, Database Sys-
- First Position in Final Year Project, received funding from Ignite for project development

# Work Experience \_\_\_

**Devster Labs** Islamabad, Pakistan

ARTIFICIAL INTELLIGENCE ENGINEER

May. 2024 - Dec. 2024

- Optimized audio processing models, achieving a 3% reduction in processing time.
- Enhanced user engagement by 8% through generative AI applications.
- Increased customer query resolution by 10% using Hugging Face, Vertex AI, and OpenAI-based chatbot solutions.
- Achieved a 2% increase in sound event detection accuracy.
- Implemented cross-functional AI solutions, reducing integration time by 30%.
- · Implemented and Deployed Weapon Detection and Anomalies Detection system in real-world Environment, resulting in 40% decrease in violence activities.

**GIFT University** Gujranwala, Pakistan

RESEARCH ASSISTANT & TENSORFLOW DEVELOPER

Feb. 2023 - May. 2024

- Implemented and Achieved 80% accuracy in sketch-to-image synthesis, surpassing state-of-the-art benchmarks.
- Enhanced CNN-based recognition by 5%, contributing to research publications and conferences.
- Developed a deep learning model using CNNs to analyze satellite imagery, achieving 85% accuracy in identifying poverty-stricken regions, and aiding in resource allocation for underserved areas.
- Specialized in GANs for diverse image synthesis, implementing advanced architectures like Pix2Pix and CycleGAN and more for Image-to-Image Translation.

CodSoft Kolkata, India

MACHINE LEARNING INTERN - REMOTE

Oct. 2023 - Nov. 2023

- · Improved captioning accuracy by 13% using CNN-RNN architecture with Attention mechanisms.
- Enhanced recommendation systems' click-through rates by 25% through collaborative filtering.
- · Integrated machine learning models like ChatGPT, Dall-E, Gemini and others into real-world applications using Flask REST APIs for seamless web application interaction.

### **Publications**

#### 25th International Conference on Digital Image Computing: Techniques and Applications

Perth, Australia

LOCALLY-FOCUSED FACE REPRESENTATION FOR SKETCH-TO-IMAGE GENERATION USING NOISE-INDUCED REFINEMENT

· This paper introduces a novel approach for sketch-to-image generation, focusing on localized face representation with noise-induced refinement to enhance visual accuracy and realism

#### 3rd International Conference on Energy, Power, Environment, Control and Computing

Pakistan

2024

LOCALLY FOCUSED MULTI-LEVEL FEATURES-BASED FRAMEWORK FOR POVERTY ESTIMATION

· This study proposes a novel multi-level feature extraction, fusion, and dual-attention mechanism framework for poverty estimation via satellite imagery.



#### **Human Sketch-to-Face Conversion**

2023

- Tech used: Python, Pytorch, GANs, CNN, Autoencoders
- Developed a GAN-Autoencoder model to convert human sketches to realistic images with feature extraction techniques.

### **Sound Event Detection System**

2024

- Tech used: Python, TensorFlow, Keras, Librosa
- Built a deep learning-based sound event detection system with 7% improvement in accuracy and reduced latency by 2% in real-time detection.

Other Projects 2024

- Tech used: Python, Sci-kit learn, Pandas, Numpy, PyTorch, CNN, RNN
- Developed and implemented a variety of machine learning models, including:
  - Image Segmentation using U-net, FCN-8 architecture
  - Image captioning with combined CNN-RNN architectures, with a 10% improvement in accuracy using attention mechanisms.
  - Recommendation systems for personalized content delivery, resulting in a 5% enhancement in recommendation accuracy.
  - Time-series forecasting for stock price prediction.
  - Transformer Models for Language Translation.

# **Skills & Interests**

**Programming Languages** Python, Latex, Java, C, C#

ML and Al Algorithms Natural Language Processing (NLP), Computer Vision (CNNs), Generative Adversarial Networks (GANs)

**Tools and Frameworks** TensorFlow, PyTorch, Flask, REST APIs, Git

**Soft Skills** Problem Solving, Hardworking, Quick Learner

**Methodologies** Scrum, Agile Methodology

Interests Image Processing, AI Applications in Gaming, Audio Signal Processing, Machine Learning Research

**Languages** English (Fluent), Urdu (Professional), Arabic(Beginner)

Hobbies Video gaming, watching sports matches, Visiting Northern Areas, Cooking, and reading Books or Blogs

### **Certification's & Awards**

2024	TensorFlow Developer Professional Certificate, by Laurence Moroney	DeepLearning.Al
2024	Natural Language Processing Specialization, by Younes Bensouda Mourri	DeepLearning.Al
2023	<b>2nd Runner Up</b> , PAK-UK Academic Bridge and hosted by Comsats University	Pakistan
2022	Machine Learning Specialization, by Prof. Andrew NG.	Coursera