

Ahmad Liaqat

ARTIFICIAL INTELLIGENCE ENGINEER · DATA SCIENCE EXPERT

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"Yesterday I was clever, so I wanted to change the world. Today, I am wise, so I am changing myself"

Summary

AI Engineer based in Riyadh, Saudi Arabia, with years of experience in NLP, LLMs, and Computer Vision, specialized in GPT, BERT, and different Transformer-based architectures. Proven expertise in fine-tuning and deploying state-of-the-art AI models for real-world applications, including text generation, language understanding, and AI-driven automation. Skilled in SQL, AWS, GCP, TensorFlow, PyTorch, and Hugging Face, with a track record of integrating AI models into scalable cloud-based environments.

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 Systems.
- First Position in Final Year Project, received funding from Ignite for project development

Work Experience

Devster Labs

Islamabad, Pakistan

ARTIFICIAL INTELLIGENCE ENGINEER

May. 2024 - Nov. 2024

- Developed AI chatbots for fintech support, boosting response efficiency by 15% and automating workflows in cloud-based enterprise systems.
- Fine-tuned LLMs (GPT-4, BERT, Hugging Face Transformers) for AI-powered chatbots, enhancing conversational accuracy.
- Implemented CI/CD pipelines for ML models, enabling automated retraining and real-time performance monitoring with MLflow/Kubeflow.
- Benchmarked AI inference workloads, reducing response time by 15% through model quantization and cloud deployment..
- Optimized audio processing models for Sound Event Detection Systems, reducing processing time by 3%.
- Deployed AI-driven weapon and anomaly detection systems in real-world environments, leading to a 40% reduction in violence-related incidents.

GIFT University

Gujranwala, Pakistan

RESEARCH ASSISTANT & TENSORFLOW DEVELOPER

Feb. 2023 - Present

- Implemented and Achieved 80% accuracy in sketch-to-image synthesis, surpassing state-of-the-art benchmarks.
- Built deep learning models for financial risk prediction with 85% accuracy.
- 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.
- Optimized data pipelines and preprocessing for sound event detection, improving real-time classification accuracy on GCP.

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

2024

- 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.

International Conference on Innovation in Artificial Intelligence and Internet of Things

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.

Jeddah, Saudi Arabia

Submitted for Publication 2025

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

SKETCH TO IMAGE SYNTHESIS: HARNESSING DEEP LEARNING TECHNIQUES FOR REALISTIC VISUAL TRANSFORMATION

- Proposed a deep learning solution to transform black-and-white face sketches into realistic color images, addressing challenges in suspect identification. Submitted this work for AI applications in law enforcement.

Gujranwala, Pakistan

2025

Projects

RAG-based Conversational AI Chatbot

- Tech: Python, TensorFlow, Hugging Face, LangChain, OpenAI, CrewAI, AutoGen
- Developed an AI-powered chatbot for fintech support, improving financial advisory responses using RAG models.
- Integrated Palantir Foundry AIP to improve knowledge retrieval from business documents.

Human Sketch-to-Face Conversion

- 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

- 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. Reduced model inference latency by 30% using quantization and model distillation.

Other Projects

- Tech used: Python, Sci-kit learn, Pandas, Numpy, PyTorch, CNN, RNN, SQL, Plotly
- Developed and implemented a variety of machine learning models, including:
 - Image Segmentation using U-net, FCN-8 architecture
 - Implemented deep learning models for fraud detection in digital payments, improving anomaly detection by 12%.
 - 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.

2022

2023

2024

2024

Skills & Interests

Programming Languages

ML and AI Algorithms

Tools and Frameworks

Cloud Platforms

Cloud Tools

Soft Skills

Methodologies

Interests

Languages

Hobbies

Python (Pandas, NumPy, SciPy, Matplotlib, Seaborn), Latex, Java, C, C#, SQL

Natural Language Processing (NLP), Computer Vision (CNNs), Generative Adversarial Networks (GANs)

TensorFlow, PyTorch, Flask, REST APIs, Git, Hugging Face, NLP Libraries (SpaCy, NLTK), Scikit-learn

Amazon Web Services (AWS), Google Cloud Platform (GCP)

Vertex AI, BigQueryML, Vertex AI Workbench, AutoML, Google Collab

Problem Solving, Hardworking, Quick Learner, Communication & Collaboration

Scrum, Agile Methodology, Hive

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

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

Watching sports matches, Visiting Northern Areas, Cooking, and reading Books or Blogs

Licenses & Certifications

2025

Machine Learning on Google Cloud, by Google Cloud Skills Boost

Google Cloud

2025

TensorFlow: Advanced Techniques Specialization, by Laurence Moroney

DeepLearning.AI

2024

TensorFlow Developer Professional Certificate, by Laurence Moroney

DeepLearning.AI

2024

Natural Language Processing Specialization, by Younes Bensouda Mourri

DeepLearning.AI

2023

2nd Runner Up: AI Driven Hackathon, PAK-UK Academic Bridge and hosted by Comsats University

Pakistan

2022

Machine Learning Specialization, by Prof. Andrew NG.

Coursera