Ehtisham Fazal

Date of birth: 13/04/1997 | **Nationality:** Pakistani | **Phone number:** (+92) 3110851609 (Mobile) | **Email address:** ehtishamfazal68@gmail.com | **Website:** http://ehtisham-fazal.github.io/ | **LinkedIn:** https://www.linkedin.com/in/ehtisham-fazal-72a036182 | **Google:** g.dev/ehtishamfazal | **Gmail:** ehtishamfazal68@gmail.com | **Address:** soldier bazar no1 , karachi, 07442, karachi, Pakistan (Home)

ABOUT ME

Skilled Machine Learning Engineer with a robust foundation in Natural Language Processing (NLP) ,Computer Vision and Large Language Models (LLMs). Demonstrated expertise in developing advanced ML models for a wide range of applications, including Face Recognition, Human Emotion Recognition, Financial Documents information extraction, Environmental data modeling and Bioinformatics. Holds a Master's degree in Electronics with a major in Signal Processing from PAF-Karachi Institute of Economics & Technology, and have completed a Python course from Google , Machine Learning course from Stanford University and Generative AI and LLM's Course from Coursera.

WORK EXPERIENCE

16/05/2023 – CURRENT karachi, Pakistan

SENIOR MACHINE LEARNING ENGINEER PIXELEDGE

- Research, design, and implement machine learning algorithms and models tailored to the unique requirements of AI processors for Financial and environment-related products.
- Work closely with software engineers to integrate machine learning models into the overall product architecture, ensuring seamless functionality and user experience.
- Collect, preprocess, and curate datasets relevant to Financial and environmental applications, ensuring data quality, integrity, and relevance for training and validation.
- Experiment with different neural network architectures, optimization techniques, and hyperparameters to achieve optimal model performance.
- Collaborate with domain experts to understand the nuances of environmental challenges and translate them into machine learning problem statements.

19/10/2022 – 15/05/2023 karachi, Pakistan

MACHINE LEARNING ENGINEER LAMBDA THETA

- Severity of road cracks Detection and Classification using computer vision
- Perspective transformation of frontal view of camera
- Label propagation of Video Frames using AI techniques and Deep learning model
- Developed a model for custom object detection and segmentation
- semi supervised machine learning technique for image processing
- Tracking of objects using deep learning model
- Ai based Chatbot for Academia

18/01/2021 – 31/01/2022 karachi, Pakistan

MACHINE LEARNING ENGINEER CLOUDEE.AI

- Machine learning model for Attendance system using facial expression recognition
- Deep learning model for Fraud detection system using Human speech emotion recognition
- Automatic quiz checker using Artificial neural network for Hand written character recognition system
- Researched and secured Web-based SaaS applications using network packet capture (.pcap)
- Working with Beautiful Soup & Selenium for Web-Scarping .
- Automate the URL detection patterns using python
- Generate Test Data using Python Faker for QA testing of SAAS apps

- QA testing of web apps using selenium web driver using python language
- Security attributes for SaaS applications Research

01/11/2021 – 30/06/2022 karachi, Pakistan
AI RESEARCHER PAF-KIET

- Worked on the project of National Center in Big Data and Cloud Computing
- Face Recognition system using AI models
- Frontal face distance estimation from camera using ML Models

01/02/2022 – 31/07/2022 Remote
CLOUD SECURITY ANALYST EITACIES INC

- Discover the new SaaS applications based on the given categories
- Develop BU signatures for the SaaS applications
- Develop GC signatures for the SaaS applications
- Working with Wireshark & Fiddler for network traffic analysis.
- Working with Python libraries for decryption of SSL traffic and automated network log analysis.

EDUCATION AND TRAINING

11/01/2021 – 02/2023 karachi, Pakistan
MS ELECTRONICS PAF-KIET

Address PAF Airmen Academy, PAF Colony Paf Colony Korangi Creek, 75190, karachi, Pakistan |

Website https://kiet.edu.pk | **Field of study** Signal and processing

11/01/2017 – 16/12/2020 karachi, Pakistan
BE AVIONICS PAF-KIET

Address PAF Airmen Academy, PAF Colony Paf Colony Korangi Creek, 75190, karachi, Pakistan |

Website https://kiet.edu.pk

05/02/2024
GENERATIVE AND LLM'S Generative AI with Large Language Models

Website https://www.coursera.org/

08/2020
MACHINE LEARNING COURSE Stanford Online- Coursera

Website coursera.org

10/2020
NEURAL NETWORKS AND DEEP LEARNING Deep Learning.AI-Coursera

Website coursera.org

LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B1	C2	B2	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Computer Vision | Microsoft Office | Python | Git | Tensorflow | Pandas | Scikit-Learn | Machine Learning | Keras | OpenCV | PyTorch | Neural Networks and Deep Learning

ADDITIONAL INFORMATION

PUBLICATIONS

Anticancer Peptides Classification using Kernel Sparse Representation Classifier – 2022

PROJECTS

Hand-on Experience

- Data Extraction and QA modeling of financial documents using LLMS and ML models
- Clustering of crypto news using DBSCAN
- Developed AI product for daily news related to crypto using LLM and multiple AI integrated Algorithm
- Transformation based Computer vision model for smart AI car
- Automatic License Number Plate Recognition System
- CNN for Image Colorization using Deep Transfer Learning
- Deep Learning Project for Text Detection in Images
- Handwriting Recognition using Machine learning model
- Zameen.com houses prices prediction using conventional machine learning model