Hasan Jehangir

Passport: CX8104321 | **Date of birth:** 25/02/2000 | **Place of birth:** Peshawar, Pakistan |

Nationality: Pakistani | **Gender:** Male | **Phone number:** (+92) 3499262254 (Mobile) | **Email address:** hasanjehangir6@gmail.com |

Address: Mohalla Aladadkhiel village marghuz district swabi, Mohalla Aladadkhiel village marghuz district swabi, 23430, Swabi, Pakistan (Home)

ABOUT ME

AI and deep learning specialist passionate about healthcare AI and computational neuroscience, with experience in machine learning, computer vision, and multimodal models. Skilled in CNNs, RNNs, Transformers, and GANs, with projects in melanoma prediction, deepfake detection, and seizure monitoring. Recognized in AI competitions and experienced in end-to-end deployment using cloud platforms. Interested in advancing AI for healthcare as well as exploring applications across other domains.

RESEARCH INTEREST

Artificial Intelligence for Healthcare & Medicine

Computational Neuroscience & Brain–Computer Intelligence

Multimodal Deep Learning

Computer Vision and Image Analysis

Natural Language Processing and Language Models & Data Science and Predictive Modeling

WORK EXPERIENCE

NCAI AIH (AI IN HEALTHCARE) LAB – PESHAWAR, PAKISTAN
MACHINE LEARNING RESEARCHER – 20/04/2024 – 31/05/2024

- Researching of sound Analysis of Human Body
- Training Model for Lung diseases using Lungs sounds
- Doing Research on other sound Produce by Human Body

WRAPIFY LABS – PESHAWAR, PAKISTAN
GEN AI INSTRUCTOR – 01/10/2025 – CURRENT

- Delivered hands-on training in Generative AI, covering LLMs, RAG, prompt engineering, and real-world AI application development.
- Guided learners through practical projects, helping them build deployable GenAI solutions while emphasizing responsible and safe AI practices.
- Contributed to improving course content and integrating the latest GenAI advancements into the curriculum.

TCPC COMMUNITY – PESHAWAR, PAKISTAN
DEEP LEARNING INSTRUCTOR – 25/09/2024 – 10/10/2024

Conducted hands-on training on CNNs, RNN, LSTM, GRU, NLP and Advance concepts like RAGs etc. and Azure ML services for 100+ participants.
Developed real-world exercises to strengthen participants' understanding of deep learning applications.

EDUCATION AND TRAINING

01/11/2021 – 15/09/2025 Peshawar, Pakistan
BACHELORS OF SCIENCE IN DATA SCIENCE University of Engineering and Technology Peshawar

Address University campus, University Rd, Rahat Abad, Peshawar, Khyber Pakhtunkhwa, 25000, Peshawar, Pakistan |

Website https://www.uetpeshawar.edu.pk/ | **Level in EQF** EQF level 6

01/06/2016 – 10/06/2018 Abbottabad, Pakistan
INTERMEDIATE (FACULTY OF SCIENCES) PRE-MEDICAL Peace College Abbottabad

Website https://thepeace.edu.pk/

10/06/2020 – 06/06/2021 Abbottabad
INTERMEDIATE (FACULTY OF SCIENCES) ADDITIONAL MATHEMATICS Private

LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s):

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

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

SKILLS

Machine/Deep Learning

CNN | Jupyter notebook | LIbrosa | LSTM, GRU | RNN | Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib.

Electronics

IoT | arduino | EEG / EMG Sensors

Programming Languages

Python | CSS | HTML | C++ | Java

Cloud Platform

Azure Services | Azure Custom vision

PUBLICATIONS

2024
Exploring Body Sound Analysis For AI/ML

Wrote an Article on various sounds produced by Human body which can be used for AI/ML .
Discussed various features of Human Body sounds helpful for AI and ML models.

Hasan jehangir Apr 29, 2024

Link https://medium.com/@hasanjehangir6/exploring-body-sound-analysis-for-ai-ml-a71145bdc8eb

2025
NeuroShield: A Multimodal Wearable with ChronoNet for RealTime Tonic–Clonic Seizure Detection and GPS Alerting (under review)

This project describes the implementation of a wearable device specifically designed to detect tonic-clonic epileptic seizures in real time and send immediate alerts to caregivers and medical professionals. Epilepsy, a chronic neurological disorder affecting millions worldwide, features unpredictable tonic-clonic seizures that carry significant risks of injury due to sudden loss of consciousness and violent muscle contractions. To address this, we integrated multiple sensors which are EMG sensor for muscle activity recording during tonic clonic seizure attack, MAX30102 for Heart rate monitoring, MPU9250 for movement and orientation changes. The data collected by these sensors are analyzed by an AI model trained using Chrono-Net Deep learning algorithm, which is good for processing sequential time series input and is very reliable for real time seizure detection using sequential data

Hasan Jehangir, Aizaz Ahmad, Fasih ullah, Dr. Wajeeha khalil, Dr. Iftikhar Ahmad , 2025 (under process) , Peerj Journal

Authors: Hasan Jehangir et al. | **Journal Name**: Peerj Artificial Intelligence

2025
Patent: NeuroShield: A Multimodal Wearable with ChronoNet for RealTime Tonic–Clonic Seizure Detection and GPS Alerting (Under Process)

Applying for Patent for our project

Hasan Jehangir et al.

PROJECTS

20/04/2024 – 10/07/2024
RespiraSense: Lungs disease prediction through Lungs sound using MFCC, Chroma feature of CNN

Built CNN-based classifier using MFCC and Chroma respiratory sound features for early lung disease prediction.
Model accuracy was more than 90%

Link https://github.com/HasanJehangir-DataScientist/RespiraSense

12/03/2024 – 12/08/2024
MelanoGuard: Melanoma prediction Model using Azure Custom Vision

Trained a model for skin cancer detection.
Achieved 94% accuracy using Azure Custom Vision;
deployed complete web platform for skin cancer screening.

Link https://github.com/HasanJehangir-DataScientist/MelanoGuard

12/06/2024 – 12/08/2024
CleanCapture: A real time recyclable items detection through Videos and pics using Azure Custom vision and streamlit

Created AI-based recyclable waste detection tool using Computer Vision and Azure App Service.

01/10/2024 – 05/07/2025
NeuroShield: A wearable device for Tonic-Clonic epilepsy patients using PPG / EMG Sensors.

A wearable device for epilepsy patient to detect PPG and EMG in real time and send instant message to caretaker during seizure attack and share live location of the patient.

01/03/2025 – 10/05/2025
Sautt-ul-haq

Designed a Retrieval-Augmented Generation system using islamic, Ahadees books and Quranic tafseer in pdf to give references of each islamic query.

HONOURS AND AWARDS

12/10/2024
World Finalist in Microsoft Ambassadors AI Project – Microsoft

Only Finalist from Pakistan in the Microsoft Ambassadors AI Competition .
More than 50 Teams from around the world participated in the Competition and we were among top 5 teams selected for final.

CONFERENCES AND SEMINARS

05/01/2024 – 05/01/2024 CS&IT Department UET Peshawar
Intro to Data Science

19/05/2024 TCPC Peshawar
Machine Learning Basics and Azure Uses

25/09/2024 – 04/10/2024 Peshawar
From Basics to Breakthroughs: A 10-Day Bootcamp on ML & DL

was instructor of Deep Learning at Bootcamp arranged by TCPC and DSS UETP .
Topics covered were
Intro to Neural Networks
Advance Computer Vision
Sequential Modeling
NLP
RAG , GAN

HOBBIES AND INTERESTS

Poetry

Novel Writing

COOKING

VOLUNTEERING

UET Peshawar
Comparing

Was comparer at orientation day 2024

ONLINE COURSES

01/10/2023 – 21/10/2023
AI in Healthcare Capstone

Stanford University

Link https://coursera.org/share/73e028fd4afbe2456b497f3d11db26a8

10/02/2023 – 31/03/2023
Supervised Machine Learning: Regression and Classification

Deeplearning.AI

Link https://coursera.org/share/ed989dfb32c5be5cd7228104b8cfc764

01/02/2023 – 10/03/2023
Neural Networks and Deep Learning

Deeplearning.AI

10/12/2022 – CURRENT
Data Science Foundations Specialization

IBM

08/08/2025 – 25/11/2025
Computational NeuroScience

Link https://www.coursera.org/account/accomplishments/certificate/MJNNOUCR2RUF

26/11/2025 – CURRENT
Fundamental Neuroscience for Neuroimaging

MANAGEMENT AND LEADERSHIP SKILLS

President

Data Science Society UET Peshawar

President

AICP (AI Community Pakistan) UET CHAPTER

Machine Learning Team Lead

TCPC Community Peshawar

AI Project Team Lead

Microsoft Ambassadors AI Competition

Director General

MLSA UETP

BETA Ambassador

Microsoft Learn Student Ambassador (MLSA)

REFERENCES

Dr. Syed Adeel Ali Shah

Email: adeel@uetpeshawar.edu.pk
Role: Associate Professor and chairperson CS Department UET Peshawar

Dr. Wajeeha Khalil

Email: wajeeha.khalil@uetpeshawar.edu.pk
Role: Assistant Professor CS Department UET Peshawar