

HASAN JEHANGIR

AI/ML Engineer | Deep Learning Specialist | Healthcare AI
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PROFESSIONAL SUMMARY

Results-driven AI/ML Engineer and Data Science graduate with a 3.53 CGPA from UET Peshawar, specializing in deep learning, biomedical AI, and real-time signal processing. Proven track record delivering production-grade AI systems: seizure-detection wearable (patent pending, paper under peer review), lung disease classifier (90%+ accuracy), and melanoma detection platform (94% accuracy). Trained 400+ students in Generative AI and Deep Learning. Recognized as Top 5 Global Finalist in the Microsoft Learn AI Ambassador Competition. Proficient in Python, TensorFlow, PyTorch, Azure AI, and end-to-end ML deployment.

TECHNICAL SKILLS

Languages:	Python, SQL, C++, HTML, CSS
ML/DL Frameworks:	TensorFlow, PyTorch, Scikit-learn, Keras, Hugging Face, LangChain
Specializations:	CNNs, RNNs, LSTMs, Transformers, GANs, RAG Systems, Computer Vision, NLP
Signal Processing:	EMG, PPG, EEG, MFCC, Chroma Features, Mel-Spectrograms, Librosa
Cloud & Tools:	Azure AI Services, Azure Custom Vision, Git, Jupyter, Google Colab, VS Code
Hardware/IoT:	ESP32, Arduino, EEG/EMG Sensors, IMU, MAX30102

PROFESSIONAL EXPERIENCE

Generative AI Engineer | *Wrapify Labs, Peshawar* | Oct 2025 – Present

- Trained and mentored 400+ students nationwide in Generative AI fundamentals, LLMs, prompt engineering, and RAG system development.
- Designed and delivered hands-on sessions on building deployable GenAI applications using Python, LangChain, and Hugging Face.
- Contributed to curriculum development, integrating latest GenAI research and responsible AI practices into the program.

Machine Learning Intern / Researcher | *NCAI AI in Healthcare Lab, Peshawar* | Apr 2024 – May 2024

- Developed CNN-based lung disease detection model achieving 92% accuracy using MFCC and Chroma audio features processed via TensorFlow and Librosa.
- Conducted research on biomedical sound analysis of the human body for AI/ML applications; authored a published Medium article on the findings.
- Collaborated with cross-functional teams to improve diagnostic speed and model computational efficiency.

Deep Learning Instructor | *TCPC / DSS UET Peshawar* | Sep 2024 – Oct 2024

- Delivered a 10-day intensive bootcamp on Deep Learning to 100+ participants, covering CNNs, RNNs, LSTMs, Transformers, NLP, GANs, RAG, and Azure ML.
- Designed real-world coding exercises to reinforce applied deep learning concepts for participants at varying skill levels.

Data Analyst (Simulation) | *Accenture Virtual Experience* | Mar 2024

- Performed data cleaning, transformation, and exploratory data analysis (EDA) to extract business insights.
- Produced client-ready analytical reports and stakeholder presentations.

High School Teacher | *Pioneers Group of Schools, Peshawar* | Jun 2023 – Sep 2023

- Taught Computer Science programming fundamentals and English; improved student exam performance by 20% through structured lesson planning.

KEY PROJECTS

NeuroShield – Multimodal Wearable Seizure Detection System | *Paper: Under Review (PeerJ AI)* | *Patent: In Progress*

- Built real-time tonic-clonic seizure detection wearable integrating EMG, PPG, and IMU sensors with ESP32 microcontroller.
- Implemented ChronoNet-based deep learning pipeline for sequential physiological signal analysis with GPS alerting for caregivers.

MelanoGuard – AI Melanoma Detection Platform

- Trained skin cancer detection model using Azure Custom Vision achieving 94% accuracy; deployed full web screening platform.

RespiraSense – Lung Disease Classification via Audio Signals

- Built CNN-based classifier using MFCC and Chroma respiratory audio features achieving ~90% accuracy for early lung disease prediction.

Saatt-ul-Haq – Islamic Knowledge RAG Assistant

- Designed a Retrieval-Augmented Generation (RAG) system over structured Islamic textual sources (Quran tafseer, Hadith) for query-based reference retrieval.

EDUCATION

Bachelor of Science in Data Science | CGPA: 3.53 / 4.00

University of Engineering and Technology (UET) Peshawar | Nov 2021 – Sep 2025

ACHIEVEMENTS & AWARDS

- Top 5 Global Finalist, Microsoft Learn AI Ambassador Competition — only team selected from Pakistan among 50+ international teams.
- President, Data Science Society UET Peshawar — led AI workshops, technical events, and community programs.
- Director General, Microsoft Learn Student Ambassador (MLSA) UET Chapter.
- Machine Learning Team Lead, TCPC Community Peshawar; AI Project Lead, AICP UET Chapter.

CERTIFICATIONS

- Deep Learning Specialization – Andrew Ng, DeepLearning.AI
- Computational Neuroscience – University of Washington (Coursera)
- Neuroimaging Neuroscience – Johns Hopkins University (Coursera)
- IBM Data Science Foundations Specialization
- AI in Healthcare Capstone – Stanford University (Coursera)