



FEROZ KHAN

(Geo AI Engineer)

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Introduction:

Interdisciplinary GeoAI Engineer and Computer Scientist with specialization in Artificial Intelligence & Geophysics. Experienced in applying AI/ML and deep learning techniques to geospatial analysis, remote sensing, seismic interpretation and mineral exploration. Skilled in programming, AI frameworks, data analysis, and computational modeling, with professional experience in geophysical surveys, field operations, software-based data modeling and interpretation, research, and teaching in Computer Science.

Professional Summary:

Computer Science / Artificial Intelligence Expertise:

- Computer Scientist, and Lecturer with expertise in Artificial Intelligence, Deep Learning, Cyber Security, and High-Performance Computing.
- Adept at developing advanced Machine Learning and Deep Learning solutions using ANN, CNN, RNN, Transformer, and Large Language Model (LLM) architectures for image processing, regression, classification, sequence-to-sequence learning, and Natural Language Processing (NLP).
- Proficient in Python-based AI ecosystems, including TensorFlow, Keras, NumPy, and Matplotlib, for data processing, model development, training, evaluation, and visualization.
- Experienced in geospatial analysis, remote sensing, geophysical data interpretation, and software-based modeling, integrating AI-driven approaches for research and real-world engineering applications.
- Strong academic and technical background in advanced Computer Science domains including Cryptography, Network Security, and Parallel & High-Performance Computing.

Geoscience Exploration:

- Proficient in seismic and resistivity measurements using MASW and ERT instruments, with expertise in QA/QC procedures, data processing, and reporting.
- Skilled in interpreting cross-sections, resistivity pseudo-sections, and providing borehole location recommendations based on anomaly detection.
- Experienced in geological logging of drill core, supervising soil pit digging, and monitoring piezometer installation.

Administrative and Site Management:

- Experienced in preparing client-compliant reports and presentations, ensuring adherence to local regulations and safety standards.
- Competent in site supervision, monitoring drilling progress, and arranging work permits and safety training.

Software Proficiency:

- Jupyter Notebook & Google Colab (Python scripts)
- Overleaf (LaTeX documents editor)
- Visual Studio Community & Dev_C++ (C++ codes)
- QGIS / ArcMap / ENVI (Remote Sensing / Multispectral / DEM processing and interpretation using PYTHON console)
- Geometrics Seismodule Controller, Surfseis / Parkseis / Geogiga_QA/QC (MASW)
- 2D/3D RESINV (ERT Processing)
- Kingdom, Petrel, Surfer_Contouring (Seismic Interpretation)

Academic Credentials:

- **MS. (Computer Science)** **2025** (4.0/4.0 CGPA)
MY University (MYU) Islamabad, Pakistan.
- **M.Phil. (Geophysics)** **2016** (3.8/5.0 CGPA / 78 %)
Quaid-I-Azam University (QAU) Islamabad, Pakistan.
- **BS. (Geophysics)** **2013** (3.5/4.0 CGPA / 83%)
COMSATS University Islamabad, Pakistan.

Work Experience:

- **MY University (MYU) Islamabad, Pakistan** **2025 – Present**
Lecturer (Full Time) – Department of Computer Science
- **New City Housing Wah, Pakistan** **2021 – 2023**
Department of HR
- **Baynunah, Abu Dhabi, UAE** **2016 – 2019**
Geotechnical Engineer
- **Internships (1 month) at OGDCL & Schlumberger, Pakistan** **2013**

Personal Information:

Date of birth : October 13, 1991; **Nationality** : Pakistani; **Languages** : English, Urdu

Reference:

Prof. Dr. M. Shamim Baig (PhD in Computer Science (Hardware & Systems) from George Washington University (GWU), Washington DC, USA)

Dean, Faculty of Computer Science, MYU Islamabad, Pakistan.

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