HAFIZ ULLAH | GEOHAZARDS ENGINEER

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Date of Birth: **Jan 02, 1997**; Passport No: **NG2746332**

⊕ Objectives

A dedicated research scholar specializing in the application of artificial intelligence to landslide susceptibility mapping and geospatial data analysis. Experienced in employing advanced AI techniques to assess and mitigate geo-hazard risks. Committed to contributing innovative research that enhances hazard prediction accuracy and supports sustainable land use planning, as well as disaster risk reduction.

⊕ Research Interest

- Geo-hazards
- Geospatial Analysis
- Simulation
- Geo-AI

⊕ Academic Profile

➢ **Current- July 2029 | Shanghai Jiao Tong University, China**

(PhD Degree | Civil Engineering)

➢ **Sep 2022- July 2025 | China University of Geosciences (CUG),** Wuhan, China

(Master's Degree | Environmental Science and Engineering | CGPA: 4.07/4.5)
Relevant Areas:
- Geo-hazards Risk Assessment
- Landslide Susceptibility Mapping
- Ground Deformation via SAR imagery
- GIS & Remote Sensing
- Environmental Impact Assessment

➢ **Aug 2015- Nov 2019 | University of Engineering and Technology (UET),** Lahore, Pakistan

(Bachelor's Degree | Geological Engineering | CGPA: 3.267/4:00)
Relevant Areas:
- Slope Stability Analysis
- Geotechnical Engineering and Rock Mechanics
- Geophysical Exploration Techniques
- Surveying and Geological Mapping

⊕ Research Projects

➢ **Bachelor's Thesis Title:** Evaluation of Slope Instability and Rockfall Hazard along M2 Motorway in the Salt Range Area, Pakistan.
➢ **Master's Thesis Title:** Machine Learning and Deep Learning for Enhanced Landslide Susceptibility and Propagation Dynamics with Cross-validation through PS-InSAR in Northwestern, Pakistan.

⊕ Research Articles

➢ [Machine Learning and Deep Learning for Enhanced Landslide Susceptibility and Propagation Dynamics in Northwestern Pakistan], currently under review as first author **(Bulletin of Engineering Geology and the Environment).**
➢ [Landslide susceptibility mapping using hybrid machine learning classifiers: a case study of Neelum Valley, Pakistan]**,** as a co-author **(Bulletin of Engineering Geology and the Environment).**
➢ [Development of an Automatic Approach for Rock Mass Structure Interpretation, Highlighting Trace Discontinuities from Colored 3D Point Clouds], currently under review as a co-author (**Rock Mechanics and Rock Engineering**).
➢ [Spatial Analysis of Flood Susceptibility in the Coastal Area of Pakistan Using Machine Learning Models and SAR Imagery], as a co-author **(Environmental Earth Sciences).**

- [The Role of Multi-Resolution DEM and Uncertainty of Sampling Strategies in Boosting the Accuracy of Deep Learning-Based Debris Flow Susceptibility Mapping], currently under review as co-author **(Acta Geotechnica).**
- [An Insight into Integrated Farming System Impacts on Soil Physiography and Weed Control in South Waziristan], Published as a Co-Author (**Pak-Euro Journal of Medical and Life Sciences**).

👤 Professional Profile

- **2019 | Site Engineer | Govt. Contractor**
- **2020 | Assistant Manager | Sharjah, United Arab Emirates (UAE)**
     Worked in a Minimart for six months as an assistant manager
- **2021 | Costumer Support Team | Mindbridge, Lahore, Pakistan**

💡 Skills

- **Technical skills:** Proficient in reading geological maps, engineering drawings, and well logs, as well as interpreting contracts.
- **Interpersonal Skills:** Effective communicator
  - English – **IELTS Academic (Test Date: 05 Jan 2025), Overall Band Score: 7.0** (Speaking: 6.5 | Listening: 7.5 | Reading: 7.5 | Writing: 6.0).
  - Chinese – Basic proficiency (Completed Chinese Language Course, UET Lahore).
  - Pashto – Native language.
  - **Urdu** – Fluent (National language).
- **Software Skills:**
  - GIS packages (ArcGIS, QGIS, ArcGIS Pro),
  - Remote sensing-related software (Envi, Pix4D), DIPS,
  - CorelDRAW, Origin, and Visio,
  - Python language, Google Earth Engine (GEE),
- **Field-related skills:**
  - Conducted fieldwork in stratigraphy, geological mapping, and assessing hydropower infrastructure across various dams, including the Terbela and Ghazi-Barota dams, as well as the Salt Range.
  - A comprehensive field survey of geohazards in the northern mountainous region of Pakistan.
  - Participated in Fieldwork on slope stability and ecological restoration in Shaanxi Province, China.

🏅 Achievements

- Recipient of the Chinese Scholarship Council (CSC) Scholarship from 2022 to 2025.
- Recipient of the HEC Scholarship Award | Awarded the Wana Welfare Association scholarship for the academic years 2015-2019.
- Awarded the Wana Welfare Association scholarship for Intermediate and graduation.
- Awarded the Fata Secretariat scholarship for engineering and medical students.

🔗 Extracurricular activities

- **International Ambassador** for China University of Geosciences, Wuhan
- **Director,** Pashtun Student Society Book Club; **Lead,** Debating Team.
- **Executive Member,** UET Literary Society, Society of Geoscientists and Engineers, and Society of Mining Engineering
- **Active Member,** Doag Student Society – supported fundraising initiatives for children's education
- Passionate player of cricket and volleyball; avid hiker and trail explorer
- Enthusiastic non-fiction reader with a keen interest in knowledge-based literature

📡 Certificates

- **Developing Sustainable Earth Science Applications** (NASA ARSET, 2025), **Remote Sensing Training (ARSET) Program** (*NASA*).
- **Cartography** (*Esri MOOC, 2024*), **GIS for Climate Action** (*Esri MOOC, 2024*), **Spatial Data Science: The New Frontier in Analytics** (*Esri MOOC, 2024*).
- **Fundamentals of GIS from University of California** (*Coursera, 2023*), **Introduction to GIS from University of Toronto** (*Coursera,*

2023), etc.

- **Chinese Bridge Delegation Programme** (Wuhan University of Science and Technology).
- **5th Badong International Geohazards Symposium (BIGS2025)**

References

- *Dr. Xing Aiguo (PhD: Southwest Jiaotong University) xingaiguo@sjtu.edu.cn*
- *Dr. Wei Wang (PhD: Kyushu University) wangw@cug.edu.cn*
- *Dr. Muhammad Farooq Ahmed (PhD: Missouri University of Science and Technology, Rolla, Missouri, USA) mfageo@uet.edu.pk*
- *Dr. Deng Yamin (PhD: China University of Geosciences, Wuhan, China) yamin.deng@cug.edu.cn*