



Huzaifa Farooq

GIS & Full-Stack Web Developer | MS Remote Sensing & GIS | AI & Machine Learning Specialist

📍 Askari 1, Chaklala Scheme 3, Rawalpindi

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🌐 <https://huzaiifa-geo-insights.love.app/>

Skills

GIS & Spatial Analysis

Software: ArcGIS Pro/Desktop, QGIS, ArcSWAT, Google Earth Engine.



Web & Full-Stack Dev

Frontend: JavaScript (ES6+), HTML5, CSS3, React (Learning) Web Mapping: Leaflet.js, OpenLayers Backend & DB: Python (Django/Flask), Node.js (Learning), PostgreSQL/PostGIS.



AI & Data Science

Models: Deep Learning (CNN, ResNet18), Supervised/Unsupervised Learning. Libraries: Python, PyTorch, NumPy, Pandas, Matplotlib, Anaconda.



Geosciences & Mining

Seismic: 2D Seismic Interpretation, OMEGA, Kingdom. Remote Sensing: Hydrothermal Gold Mineralization Identification, SAR Data Interpretation.



Management & Soft Skills

Leadership: Team Management (230+ students), Strategic Enrollment Planning. Business: Financial Reporting, Inventory Management, Customer Relations

Awards

Academic Scholarship Award

Quaid-i-Azam University
Mar 2014

Cash reward for being top in the class in the first semester.

Academic Scholarship Award

Quaid-i-Azam University
Mar 2015

Cash reward for being top in the class in the first semester.

PRIME MINISTER'S LAPTOP SCHEME

Prime Minister
June 2016

I was awarded a laptop for ranking among the top 10 students in the department.

References

Dr. Sajid Ghuffar

Head of Department (IST)
03455200284

Summary

Geospatial Data Scientist & Entrepreneur with an MS in Remote Sensing & GIS (In-progress) and a background in Geophysics. Expert in AI-driven land classification and Web-GIS development. Proven record of scaling organizations by 240% and managing complex data workflows for urban and energy sectors.

Experience

Zoneomics Islamabad, Pakistan
GIS Analyst Oct 2025 - Dec 2025

- Utilized GIS software to match and validate municipal zoning attributes against spatial shapefiles, ensuring 100% alignment between geometric data and regulatory text.
- Structured and standardized large-scale geospatial datasets, converting complex legal municipal codes into digital formats for platform integration.
- Managed data submission workflows for US-based real estate projects, maintaining high accuracy standards through rigorous spatial reviews.

<https://www.zoneomics.com/>

THE LEARNING TREE SCHOOL Attock, Pakistan
Founder & Director Oct 2018 - Present

- Developed and implemented marketing and enrollment strategies that resulted in a **240% increase in student enrollment** within two years.
- Currently overseeing finances and registration processes for over **230 students**; successfully pivoted to remote management while pursuing post-graduate studies.
- Integrated technological solutions and e-learning programs to ensure educational continuity during the COVID-19 pandemic.

<https://www.facebook.com/TheLearningTreeAttock/>

CHEVROLET AUTHORIZED WORKSHOP Islamabad, Pakistan
Partnership Nov 2017 - Apr 2018

- Managed inventory levels and daily cash flows while providing accurate financial reporting and customer trend analysis.
- Created marketing campaigns to increase brand awareness and drive customer footfall to the workshop.

OIL & GAS DEVELOPMENT COMPANY (OGDCL) Islamabad, Pakistan
Intern (Processing Department) Jul 2017 - Aug 2017

- Mastered seismic data processing workflows using **OMEGA software** and assisted in optimizing parameters for subsurface data accuracy.
- Participated in field data acquisition, gaining hands-on experience with both dynamite blasting and vibroseis seismic sources.

Projects

Web-Based Multi-Criteria Spatial Decision Support System (SDSS) Dec 2025

<https://huzaiifarooq345.github.io/urban-accessibility-sdss/>

Remote Sensing-Based Identification of Hydrothermal Gold Mineralization Zones Jan 2025

Modified ResNet18 model for Euro Sat dataset for land use classification Feb 2025

<https://github.com/HuzaifaFarooq345/eurosat-resnet18-classification>

Watershed Delineation and HRU Analysis of Haro River Basin Using ArcSWAT Mar 2025

<https://preview--huzaiifa-geo-insights.lovable.app/projects/haro>

Flood Inundation Mapping of Bahawalpur District, Punjab Using Google Earth Engine, QGIS Apr 2025

Education

Institute of Space Technology (IST) Islamabad, Pakistan
MASTER OF SCIENCE IN REMOTE SENSING & GIS Sep 2025 - Present

- 2nd Semester (Coursework completion: June 2026; Thesis remaining)
- Specialized Research:** Developing AI-driven 3D surface modeling techniques using LiDAR data for high-precision terrain analysis, infrastructure planning, and site suitability assessment in urban housing developments.
- Web GIS Core Competencies:** Architecting interactive, web-based Spatial Decision Support Systems (SDSS) using **Leaflet.js**, **JavaScript**, and **GeoJSON** for real-time urban accessibility and rental analysis.
- Advanced Remote Sensing:** Expertise in satellite data interpretation and machine learning-driven land classification using modified **ResNet18** architectures.

PIAIC Karachi, Pakistan
Artificial Intelligence (AIC) Jul 2022 – Jun 2024

- Achievement:** Successfully completed a rigorous one-year program with a focus on Python-driven AI and Machine Learning algorithms.
- Technical Skills:** Advanced data manipulation using NumPy and Pandas; implemented deep learning models for satellite imagery classification.

Quaid-i-Azam University Islamabad, Pakistan
Bachelor of Science (BS) in Geophysics Sep 2013 – Nov 2017

- Thesis: 2D Seismic Reflection Data Interpretation of Tajjal Sindh, Pakistan.
- Honors: Recipient of the Prime Minister's Laptop Scheme and multiple Academic Scholarship Awards for ranking in the top 10% of the department.

Certifications

Certified Artificial Intelligence Developer June 2024
The Presidential Initiative for Artificial Intelligence & Computing

<https://www.piaic.org/>

AI and Climate Change Oct 2023
Coursera

Introduction to Data Analytics Oct 2022
SkillUP