

Ahmad Furqan Hassan

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Date of birth: 05/06/2000 **Nationality:** Pakistani

ABOUT ME

Experienced GIS and Remote Sensing Analyst with a Master's in Remote Sensing from the University of the Punjab. Expert in utilizing GIS technologies for public health and environmental projects. Proficient in development for data-driven decision-making with advanced skills in ArcGIS, Python, and other GIS tools.

WORK EXPERIENCE

[18/12/2023 – Current]

GIS Analyst

Primary & Secondary Health Department, Punjab

City: Lahore | **Country:** Pakistan

- Lead a comprehensive three-month survey across Punjab, employing advanced GIS technology to map vaccination kit stations and significantly enhance vaccination coverage.
- Manage the digitization of geographical data for over 22 healthcare facilities per union council, improving resource distribution and service delivery.
- Generate detailed digital maps and infrastructure analyses for health policymakers, facilitating strategic planning and informed decision-making.
- Enhance public health initiatives through the implementation of data-driven strategies, improving population health outcomes.

[01/06/2023 – 31/07/2023]

GIS Intern

National Engineering Services Pakistan (NESPAK)

City: Lahore | **Country:** Pakistan

- Contributed to the "Provision of Safe Drinking Water" project in six districts of Punjab's southern zone.
- Created detailed cartographic representations for each location involved in the Aab e Pak initiative.

[15/07/2021 – 30/07/2022]

Undergraduate Researcher

Remote Sensing, GIS, and Climatic Research Lab, Centre for Remote Sensing

City: Lahore | **Country:** Pakistan

- Investigated methane climatology in Pakistan using Remote Sensing and GIS techniques.
- Analyzed methane variations during Eid Al Adha over three years, identifying significant environmental impacts.

[01/07/2021 – 31/08/2021]

Research Intern

Pakistan Meteorological Department

City: Lahore | **Country:** Pakistan

- Conducted hydrological analysis of Tarbela Dam's watershed using Remote Sensing and GIS techniques.
- Supported water management strategies by providing actionable insights into watershed dynamics.

EDUCATION AND TRAINING

[05/11/2018 – 30/07/2022]

BS Space Science

University of the Punjab, Lahore <http://www.pu.edu.pk/>

Address: Canal Rd, Quaid-i-Azam Campus, Lahore, Punjab, Canal Rd, Quaid-i-Azam Campus, Lahore, Punjab, 05422, Lahore, Pakistan |

[05/02/2023 – Current]

MS Remote Sensing

University of the Punjab <http://www.pu.edu.pk/>

City: Lahore | **Country:** Pakistan |

CERTIFICATIONS

[20/11/2023]

Data Scientist in Python

Datacamp <https://datacamp.com/>

[20/11/2023]

Introduction to Data and Data Science

365 DataScience <https://365datascience.com/>

[20/11/2023]

Fundamentals of Data Analysis in Excel

Corporate Finance Institute <https://corporatefinanceinstitute.com/>

LANGUAGE SKILLS

Mother tongue(s): Punjabi **Other language(s):** Urdu, English

DIGITAL SKILLS

ArcGIS | Microsoft Office | Erdas Imagine | Python | JavaScript | QGIS | Google Earth Engine | Google Earth | R