



Institute of Geographical Information Systems

School of Civil & Environmental Engineering

National University of Sciences and Technology, Islamabad, Pakistan

Research Work Experience: Mr. Ahtsham Mustafa Awan

This letter is to certify that Mr Ahtsham Mustafa Awan (Reg No. 00000361716) was employed as a Research Associate at the Institute of Geographical Information Systems, National University of Sciences and Technology Islamabad, Pakistan, between Jul 2023 to Dec 2023, under the following projects.

1. Simulating Coastal Inundation Vulnerability and Impact Assessment for Indus River Delta
2. An Evaluation of the Current State of the Art in Drone Imaging for Floods and Expert Knowledge in a Growing Market Using Spatial Data and Tools
3. Delimitation of Electoral Boundaries during inter census period: A hybrid approach integrating remote sensing and census data.
4. Integrating Multi Datasets in Google Earth Engine for Advanced Hydrological Modelling Using the Soil Conservation Service Curve Number Method.

He worked in Spatial Data Analysis, Scientific report writing and presenting the research outcomes.

We wish him the best for his future endeavors.

Ejaz

Institute of Geographic Information Systems

National University of Science & Technology

H-12 Islamabad

Email: ejaz@igis.nust.edu.pk

Tel: +92-51-90854400

General Headquarters
QMG Branch, Qtg & Lands Dte
Army Land Management Cell (ALMC)
Rawalpindi.
Dated: 1st August, 2024

TO WHOM IT MAY CONCERN

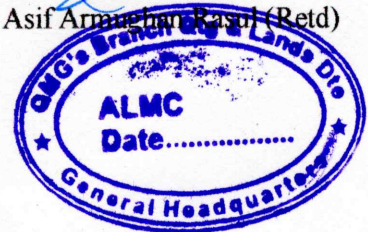
This is to certify that **Mr Ahtsham Mustafa Awan** has worked with Army Land Management Cell as **GIS Officer** from Jan 2024 till May 2024. During his tenure he has been actively involved in several tasks, including Data preparation, Digitization, Report writing, Data management and storage of geospatial data into the land information database. His collaboration with cross-functional teams was pivotal in achieving seamless integration of data across various departments.

Additionally, he was responsible for data handling and backups, creating and maintaining the structures necessary for GIS data storage and visualization. He actively participated in discussions, shared his insights, and contributed to overall success of the team.

His contributions were appreciated by our organization, and we extend our wishes for his future success.

For any further queries feel free to contact undersigned at +923100050707 or Gmail: armughan.kyani@yahoo.com

Senior Manager
Army Land Mgmt Cell (ALMC)
Lt. Col. Asif Arman Khan Rasul (Retd)





**EARTH EXPLORER
(PRIVATE) LIMITED**

+92 342 1469453

earthexplorerclub786@gmail.com

Date 15/07/2023

Experience Certificate

This letter is to certify that **Mr. Ahtsham Mustafa Awan, S/O Ghulam Mustafa Khan**, bearing CNIC. **82701-0347537-5** has been employed with **Earth Explorer Pvt Limited** as a “**GIS Analyst**” from 24/10/2021 to 14/04/2022.

During his tenure, we found him regular, honest and diligent in his duties and responsibilities. This is also to certify that he holds no liabilities towards the company.

We wish him success in his future endeavours.

This certificate has been issued upon his request to be provided to whom it may concern.



Syed Nohman Gillani
Chief Geologist

سید نوحان گیلانی



HEAD OFFICE

Chinar Chambers, Near Chinar CNG
Filling Station, Qalandarabad, DIST
Abbottabad

Ph : +92-992-370123

Mob : +92-300-0222914

Email : chinarlimestone@gmail.com

Website : www.chinargoc.com

Dec 18, 2023

Experience Letter

It is certified that **Mr. Ahtsham Mustafa Awan S/O Ghulam Mustafa Khan** has worked as a **GIS Analyst** with **Chinar Mines and Minerals Islamabad Office** from **May 1st 2022 till July 7th 2023**.

He left the job on his own accord.

We wish him all the best in his future endeavors.

This certificate is being issued at the request of **Mr. Ahtsham Mustafa Awan**.

Please contact our Islamabad office at the provided phone number to confirm or inquire further.

ISLAMABAD OFFICE

Apt No 3, 2nd Floor,
Plaza No 55, Civic Center
Phase 4, Bahria Town,
Rawalpindi
Ph : +92-51-5730361

FACTORY OFFICE

Chinar Mineral Processing
Mills, Plot 66, Phase III,
Hattar Industrial Estate,
Haripur
Ph : +92-995-617504

KARACHI OFFICE

A/2 Gohar Chamber, C.C Area
Block- 7/8, K.C.H.S, Near Duty Free
Shop, Shahra-e-Faisal,
Karachi.
Ph : +92-21-34540038



YONSEI UNIVERSITY

Jan 26, 2023

Ahtsham Mustafa Awan

has successfully completed

Spatial Data Science and Applications

an online non-credit course authorized by Yonsei University and offered through
Coursera

Joon Heo
Professor
School of Civil and Environmental Engineering

COURSE CERTIFICATE



Verify at:
<https://coursera.org/verify/7UF7RH4BNM99>

Coursera has confirmed the identity of this individual and their
participation in the course.



hereby recognizes that

Ahtsham Mustafa Awan

has attended the MOOC

Spatial Data Science: The New Frontier in Analytics

6 weeks

Completed on October 4, 2023

A handwritten signature in black ink, reading 'Jack Dangermond', is positioned above a horizontal line.

Jack Dangermond

President, Esri



Certificate no: UC-a3b1ebb1-60ec-4742-b218-0a8390b88c83

Certificate url: ude.my/UC-a3b1ebb1-60ec-4742-b218-0a8390b88c83

Reference Number: 0004

CERTIFICATE OF COMPLETION

Web GIS development course

Instructors **Krishna Lodha**

Ahtsham Mustafa Awan

Date **July 10, 2023**

Length **19 total hours**



hereby recognizes that

Ahtsham Mustafa Awan

has attended the web course

Python for Everyone

4 hours and 15 minutes

Completed on October 13, 2023

A handwritten signature in black ink, reading "Jack Dangermond". The signature is written in a cursive style and is positioned above a horizontal line.

Jack Dangermond, President



hereby recognizes that

Ahtsham Mustafa Awan

has attended the MOOC

Imagery in Action

6 weeks

Completed on October 25, 2023

Jack Dangermond, PRESIDENT

Esri Training
esri.com/training



CERTIFICATE OF COMPLETION

This is to certify that

Ahtsham Mustafa

FOR SUCCESSFULLY COMPLETING THE COURSE

Hyperspectral Thermal Image Unmixing



Issued on 2023-09-21

Certificate ID: mgw9jr3dpc



hereby recognizes that

Ahtsham Mustafa Awan

has attended the MOOC

GIS for Climate Action

6 weeks

Completed on December 4, 2023

Jack Dangermond,
President, Esri



4 Courses

Introduction to GIS Mapping

GIS Data Acquisition and
Map Design

Spatial Analysis and Satellite
Imagery in a GIS

GIS, Mapping, and Spatial
Analysis Capstone



Oct 31, 2023

Ahtsham Mustafa Awan

has successfully completed the online, non-credit Specialization

GIS, Mapping, and Spatial Analysis

This Specialization is for those new to mapping and GIS, as well as anyone looking to gain a better understanding of how it all works and why. You will learn practical skills that can be applied to your own work using cutting-edge software created by Esri Inc., the world's leading GIS company and our industry partner.

Don Boyes
Professor, Teaching
Stream
Geography and
Planning, UToronto

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

<https://coursera.org/verify/specialization/GS8A5GXAJRS8>



hereby recognizes that

Ahtsham Mustafa Awan

has attended the MOOC

Going Places with Spatial Analysis

6 weeks

Completed on February 29, 2024

Jack Dangermond
President



hereby recognizes that

Ahtsham Mustafa Awan

has attended the MOOC

Cartography.

6 weeks

Completed on May 19, 2024

Jack Dangermond
President