



# Maria Mushtaq

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## ● ABOUT MYSELF

Geoinformatics Engineer and Erasmus Mundus scholar currently pursuing a [Copernicus Master in Digital Earth – CDE](#) at the University of Salzburg. Experienced in Web GIS, Earth Observation, and machine learning, with a focus on building data-driven geospatial applications. Skilled in integrating satellite data and modern web technologies for real-world environmental and resource management challenges. Passionate about applying AI and EO for scalable, impact-driven solutions.

## ● EDUCATION & TRAINING

29/09/2025 - Current - SALZBURG, AUSTRIA

**COPERNICUS MASTER IN DIGITAL EARTH – CDE- UNIVERSITÄT SALZBURG**

Level in EQF: 7

19/10/2020 - 15/06/2024 - ISLAMABAD, PAKISTAN

**GEOINFORMATICS ENGINEERING- NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY**

Level in EQF: 6

## ● WORK EXPERIENCE

01/11/2024 - 04/09/2025 - ISLAMABAD, PAKISTAN

**GIS DEVELOPER LMK RESOURCES**

- Spearheading the development of **GIS-based tools and applications** for **sustainable development** and **environmental management**
- Analyzing **remote sensing datasets** and applying **machine learning techniques** for **spatial modeling** and predictive analysis.
- Managing and maintaining **spatial databases**, optimizing workflows for efficient **geospatial data processing**
- Collaborating with stakeholders to create **customized GIS solutions**, focusing on **spatial decision-making** and **risk assessment tools**.

01/06/2024 - 30/10/2024 - RAWALPINDI, PAKISTAN

**JUNIOR SOFTWARE DEVELOPER INOTECH SOLUTION**

- Designed and developed scalable **GIS architectures** to support **geospatial data processing** and **visualization platforms**
- Customized **web-based GIS solutions** for clients, leveraging tools like **OpenLayers, Leaflet, and GeoJSON**
- Conducted **spatial data analysis**, integrated **remote sensing datasets**, and implemented interactive **mapping solutions** to solve real-world challenges.
- Collaborated with cross-disciplinary teams to enhance **data interoperability** and ensure seamless

integration with **spatial databases** like **PostGIS**.

01/07/2023 - 31/08/2023 - RAWALPINDI, PAKISTAN

## **GEOGRAPHIC INFORMATION SYSTEMS INTERN PAK ARMY**

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- Developed a **3D visualization tool** for web-based geospatial applications, incorporating **line of sight analysis**, **viewshed modeling**, and **elevation data visualization** using **WMS raster layers** and **CesiumJS**.
- Enhanced website functionality by implementing **routing features** and designing tools for **geospatial data manipulation** and editing.
- Gained hands-on experience with **GeoServer** and integrated **backend and frontend solutions** for **GIS-based applications**

## ● **SKILLS**

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Angular | ArcGIS Desktop/Pro (advanced) | Geographical Informational Systems (GIS) | GIS software: Expert QGIS and good control of ArcGIS | GeoServer (Independent user) | Databases (PostgreSQL/PostGIS, MySQL) | Google Earth Engine (GEE) / Google Earth Pro | Machine learning | Digital mapping cartography | AutoCad, MicroSurveyCad | R Language (RStudio) | JQUERY, AJAX | Google Earth Pro | Python, Javascript, Node.js, php, jquery, | Web Development: HTML, CSS, JavaScript, VUE, CesiumJS | Fullstack developer (MongoDB, Express, React, NodeJS) | Spatial Data Analysis | WebGIS: OpenLayers, Leaflet | BootstrapCSS, TailwindCSS | Irrigation and Hydrology | Python (PyROOT, RDataFrame; ML: Keras, TensorFlow) | Data Handling and Forecasting | develop geological databases | Node.js e NPM

## ● **PROJECTS**

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01/09/2023 - 07/05/2024

**LandSlide Susceptibility Analysis and Early Warning System Using Machine Learning and GIS** Developed a Landslide Susceptibility Analysis and Early Warning System using Machine Learning and GIS. Conducted spatial data analysis and implemented predictive models to identify high-risk areas. Created a user-friendly website to provide real-time alerts and enhance disaster preparedness for users

25/06/2022 - 20/07/2022

**MHVRA of Muzaffarabad Using GIS** Conducted a comprehensive Multi-Hazard Vulnerability and Risk Assessment (MHVRA) of Muzaffarabad using GIS. Analyzed spatial data to assess various natural and man-made hazards, identified vulnerable areas, and provided actionable insights for risk mitigation and disaster preparedness

20/10/2022 - 15/11/2022

**Nadra Administration System** Developed a NADRA Administration System with a robust database backend and a frontend built using JavaScript, CSS, and HTML. Designed the system to manage administrative tasks efficiently, ensuring seamless data handling and user interaction

10/11/2023 - 25/12/2023

**Detection of Heart Disease Using ANN** Implemented a heart disease detection system using Artificial Neural Networks (ANN) to analyze data across different ages and genders. Developed and trained the model to accurately predict heart disease risk, improving diagnostic capabilities and personalized healthcare

04/04/2021 - 30/04/2021

**Emotion and Face Detection** Developed ML algorithms for emotion and face detection.

10/08/2023 - 12/09/2023

**Covid Range Dashboard** Created an interactive map for COVID data using Bootstrap, Open Layers, and PostgreSQL.

## ● **LANGUAGE SKILLS**

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Mother tongue(s): **PANJABI; PUNJABI**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>GERMAN SIGN LANGUAGE(A1.1 LEVEL)</b>	A1	A1	A1	A1	A1
<b>URDU</b>	C2	C2	C2	C2	C2
<b>ENGLISH</b>	B2	B2	B2	B2	B2