



MARYAM HBAB

Geographic Information Systems (GIS) graduate with over a year of experience in spatial analysis, mapping, and spatial data processing, I have in-depth expertise in GIS tools like ArcGIS and QGIS, supplemented by skills in remote sensing. I have a proven track record in project management and effective collaboration within multidisciplinary teams. Motivated and eager to further develop my skills and apply my knowledge in a practical manner.



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Marrakech, Morocco



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ACADEMIC CAREERS

Specialized Master's in Geomatics Applied to Geosciences and Environment - 2022/Faculty of Sciences Ben M'sik, Hassan II University, Casablanca

- Thesis: Application of GIS and remote sensing for studying the spatio-temporal evolution of watermelon cultivation and its impacts on groundwater levels in the Feija plain, Zagora Province

Bachelor of Science in Applied Geology for Mineral Resources- 2020/ Faculty of Sciences and Techniques, Cadi Ayyad University, Marrakech

- Thesis: Contribution of geophysical data to the study of the Tasiast area's structure (Western Réguibat Ridge, Mauritania)

TECHNICAL SKILLS

- Expertise in using ArcGIS, QGIS, Erdas Imagine, and ENVI for advanced applications in remote sensing and mapping.
- Proficiency in GeoServer and Leaflet API for developing interactive mapping solutions.
- Advanced knowledge of HTML, JavaScript, and PHP for creating dynamic web applications.
- Competence in MySQL, PostgreSQL, and PostGIS, with training certifications by Mr. Chafiq Tarik via Udemey.
- Proficient in Python, certified through training provided by Mr. Chafiq Tarik on Udemey.
- Experience in remote sensing, mapping, photogrammetry, web mapping, geodesy, and geostatistics. Microsoft Office: Word, Excel, PowerPoint.

Academic Projects: :

Multi-Criteria Analysis AHP :

- Study for the selection of a mining waste dump site in the Imiter area.
- Selection of an ideal location for a new pharmacy in Settatt using the AHP approach.

Web GIS Development:

- Design and implementation of a web GIS for spatial visualization of projects using PHP, Leaflet, PostGIS, and PostgreSQL.

Web Development :

- Creation of a responsive website using HTML, CSS, JavaScript and Bootstrap;

Assessment of Aquifer Vulnerability :

- Application of the DRASTIC method to assess the vulnerability of the Berrechid aquifer.

LANGUAGES

Arabic, French, English (C1 according to CEFR) .

INTERESTS

Hiking ,Photography and Volunteering.

PROFESSIONAL EXPERIENCES

Consulting Office Compétences Conseil, Marrakech

GIS Project Manager

september, 2022 - February, 2024

Project for the development of the agricultural map of Souss Massa

- Determination of homogeneous soil units using the e-Soter digital soil mapping (DSM) method.
- Conducts a one-month field mission for data collection, including soil reconnaissance, GPS coordinate acquisition, and soil sampling .
- Critical analysis of the collected data to ensure accuracy and relevance.
- Development of databases and creation of a web GIS for the analysis and visualization of agricultural data.

Study of delimitation, inventory, and characterization for the creation of pastoral and agroforestry areas, regions of Draa Tafilalet and Souss Massa

- Responsible for feeding and updating databases, data analysis, and creating detailed maps for the project.

Technical assistance for the monitoring and control of pastoral developments, in accordance with Law 113-13, regions of Draa Tafilalet and Souss Massa (2023-2024)

- Management of pastoral developments and integration of information into the GIS database, contributing to regulatory compliance and operational efficiency.

Technical assistance for the census of nurseries, Tanger-Tétouan-Al Hoceïma region

- Designing and implementation of a customized form for nursery census using the ODK Collect application, tailored to the specific needs of the survey.
- Developing an automated system for real-time transmission of collected data to the company's server, ensuring efficient and real-time data collection and analysis.

Consulting Office Compétences Conseil, Marrakech

intern

March, 2022 - June, 2022

Project for the development of the agricultural map of Souss Massa

- Responsible for collecting, analyzing, and converting data into actionable geographic information using Geographic Information Systems (GIS).
- Development of thematic maps to visualize and interpret agricultural data effectively, thereby facilitating strategic decision-making.

Consulting Office Compétences Conseil, Marrakech/ORMVA Ouarzazate

intern

October, 2021 - November, 2021

Technical Assistance for Monitoring and Supervising Works Related to Pastoral Developments, ORMVAO (2021-2022)

- In charge of updating the GIS database to ensure the integrity and relevance of information within the scope of the rangeland development program and transhumant flow regulation.
- Responsible for creating thematic maps to support analyses and reports on pastoral developments, thereby facilitating strategic and operational decisions

ADDITIONAL INFORMATION

Collaborated with Mr. Farhan Houssein Ali (Phd student at Umóss) on his research project addressing "Analysis of the Geographic Accessibility of Health Facilities in the Public and Para public Sectors, and Strategies to Enhance Access to Healthcare Services for the Djiboutian Population." The findings are currently under submission to Geospatial Health, the official journal of the International Society of Geospatial Health.