ESSAYEH Omar

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Profile

I'm Omar Sayeh . I am a Geomatics professional with a passion for Data Analytics , web development and technology.

I obtained my bachelor degree in geomatics from the Faculty of Science in Tunisia, where I gained a solid foundation in geospatial data analysis, database management and mapping techniques.

I am now aiming for a professional master degree in GIS and Remote Sensing.

Education

Master's Degree in GIS and Remote-Sensing, *Faculty of Science of Tunis* ⧉ — present
Tunis, Tunisia

Bachelor Degree in Geomatics, *Faculty of Science of Tunis* ⧉ — 09/2020 – 06/2023
Tunis, Tunisia

Baccalauréat Informatique, *Lycée Wafe /Wafe Highschool* — 2016 – 2020
Ariana, Tunisia

Professional Experience

GIZ Tunisia, *Internship Trainee* — 06/2024 – 08/2024
Tunis, Tunisia
- Study on the impact of land development on agricultural lands using remote sensing and geospatial tools.
- Creating representative maps of the impact of developments made by the "*Agence Foncière Agricole*" (AFA)
- Developing JS script on GEE to analyse Satilite Imagery (NDVI)
- Developing Python scripts using SARIMA ML model to predict future NDVI trends

Société Tunisienne de l'Electricité et du Gaz -STEG, *Internship Trainee* ⧉ — 01/2023 – 06/2023
Tunis, Tunisia
- Gained solid skills in database management and handling geospatial data
- Worked with QGIS to integrate and analyze spatial data
- Used SQL to query and manage databases effectively
- Enhanced technical skills and developed practical expertise in geomatics through hands-on experience

JCI Ariana, *Member* — Ariana, Tunisia
- Editing Photos and Videos
- Managing Sociall media

Skills

Arcgis
Geographic Information System software

Qgis
Geographic Information System software

PostgreSQL PostGIS
Database Management Softwares

Python
Programming Language

HTML/CSS/JS
Programming languages

Projects

Geospatial Analysis of Contamination Risk in Egypt ☒

- Geospatial analysis of contamination risks in the Nile Delta region of Egypt.
- Extracts data from websites to gather information on global waste sites.
- Prepares data for analysis using Pandas and GeoPandas.
- Web Scraping with Python by utilizing Beautiful Soup to gather data on waste sites globally.
- Geospatial Analysis with Python for comprehensive analysis and visualization of contamination risks using GeoPandas and Matplotlib.

UK Police API Plugin for QGIS ☒
- Connects QGIS to the UK Police API for easy access to stop-and-search data.
- Simplifies the integration of real-time data into geospatial analysis.
- Seamlessly fetches police stop-and-search data by location and time period.
- Plots the data as map layers for crime hotspot analysis.
- Includes a progress bar to monitor data fetching in real-time.

Data Pipe Line / DashBoard
- Web Scraping Bot that Gathers data on the used car market from the AutoMobile.tn ☒ website.
- Data Cleaning Processes and refines scraped data to ensure quality for analysis.
- Stores cleaned data in a database for efficient access and management.
- Utilizes Streamlit to visualize insights on the used cars market.
- Incorporates a geospatial component to analyze market trends geographically.

A case study of the Estate Market ☒
- Web Scraping and extracts real estate announcements from Tayara.tn ☒ .
- Storing the scraped data for further analysis and retrieval.
- Data Cleaning refines and prepares the raw data for accurate analysis.
- Visualizes trends and insights from the real estate data.

End of studies Thesis
- Incorporates high-voltage HTB data into a Geographic Information System (QGIS).
- Relational Geo-Database utilizes PostgreSQL/PostGIS to store and manage geospatial data.
- Visualizes high-voltage infrastructure on QGIS maps

Languages

- English
- Arabic
- French