Enayatullah Meskinyaar

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PROFILE

I am a GIS Specialist with focuse on geospatial data engineering and hands-on experience with building scalable, cloud-native geospatial systems and automated geospatial data pipelines. With a Master's in Geospatial Technologies and experience across remote sensing, GeoAI, and geospatial data engineering, I specialize in transforming raw satellite and spatial data into analysis-ready, production-grade insights. Solid foundation in Python, ETL workflow design, and cloud data infrastructure, with a focus on operationalizing geospatial analytics for monitoring and decision-making.

EDUCATION

Nova University of Lisbon, University of Münster — **Sep 2023 – Mar 2025**
M.Sc. in Geospatial Technologies — *Portugal & Germany*

Kabul Polytechnic University — **Mar 2014 – Dec 2018**
B.Sc. in Geographic Information Systems — *Kabul, Afghanistan*

CORE SKILLS

Geospatial Processing:	Raster and vector processing, SAR/optical workflows, change detection, cloud-optimized formats (COG, GeoParquet)
Programming:	Python (GeoPandas, Rasterio, GDAL, xarray, NumPy), SQL, Bash
Automation & ETL:	Airflow, Docker, data pipeline design, reproducible environments
Cloud Platforms:	AWS (S3, Glue, Lambda, Athena), GCP(Big Query
Databases:	PostgreSQL/PostGIS, DuckDB
Web Mapping:	GeoServer, Leaflet, REST API integration

PROFESSIONAL EXPERIENCE

Ministry of Interior Affairs — **Apr 2020 – Aug 2022**
GIS Engineer — *Kabul, Afghanistan*

- Designed and implemented a **PostGIS database** to centralize nationwide spatial data and improve data integrity across departments.
- Automated **ETL workflows** for integrating geospatial datasets using Python and SQL.
- Performed **remote sensing analysis** and spatial modeling to support infrastructure and risk assessments.
- Developed dynamic cartographic outputs and dashboards, enhancing decision support in crisis management operations.

Ministry of Urban Development — **Jan 2019 – Jan 2020**
Junior GIS Officer — *Kabul, Afghanistan*

- Applied **satellite image classification** for urban structure mapping and change detection.
- Built and maintained **geospatial databases** for asset management and planning.
- Supported spatial analysis projects for land valuation and policy development.

SELECTED PROJECTS

Geospatial ETL Pipeline / *Airflow, Docker, PostGIS, Python* — **2025**
End-to-end geospatial ETL pipeline for OpenStreetMap data using Airflow and PostGIS. Fully containerized with Docker, featuring automated DAGs for geometry extraction and preprocessing.

PredictLab — Interactive ML Platform / *Streamlit, Python, scikit-learn* — **2025**
Built an interactive machine learning dashboard allowing users to upload datasets, train multiple ML models, visualize performance metrics, and download predictions — all from the browser.

Post-Earthquake Damage Assessment / *Remote Sensing, ML, Python* — **2025**
Developed a few-shot learning workflow for detecting building damage after earthquakes using satellite imagery, advancing automated post-disaster mapping.

Paved Road Finder (Shortest Path) / *Python, PostGIS, ETL* — **2024**
Developed a spatial ETL workflow to find the nearest paved road from rural parcels, integrating spatial network analysis with reproducible Python pipelines.

LANGUAGES

English (C1 – Fluent), German (A2 – Conversational), Portuguese (A1 – Basic)