Enayatullah Meskinyaar

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PROFILE

GIS Specialist with a Master's in Geospatial Technologies and over two years of experience in geospatial analysis, database management, and remote sensing. Skilled in designing, implementing, and maintaining GIS systems, with strong expertise in Python, PostgreSQL/PostGIS, and GeoServer. Experienced in environmental monitoring, risk assessment, and early-warning applications. Adept at integrating geospatial data with analytical and visualization tools to support decision-making in agriculture, disaster response, and environmental projects.

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*

TECHNICAL SKILLS

GIS & Remote Sensing:	ArcGIS Pro, QGIS, Google Earth Engine, SNAP, ENVI
Programming:	Python (GeoPandas, Rasterio, TensorFlow, MintPy, NumPy, Matplotlib), R, SQL
Spatial Databases:	PostgreSQL/PostGIS, DuckDB
Web Mapping / Servers:	GeoServer, MapServer, FME
Cloud/ETL:	AWS, GCP (Big Query), FME Form

EXPERIENCE

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

- Designed and implemented a **PostGIS database** to centralize nationwide spatial data, improving accessibility and security in a fragile, crisis-prone context.
- Conducted **spatial analysis** using Python and SQL to support infrastructure planning and evidence-based decision-making for resilience and allocation of resources.
- Produced **cartographic maps** and situational dashboards in ArcGIS Pro, strengthening operational logistics and inter-departmental coordination.
- Delivered **interactive mapping solutions** that enhanced real-time situational awareness for emergency and security planners.

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

- Applied **satellite image classification** to assess urban structures, supporting infrastructure recovery and resilience planning.
- Created and maintained **geodatabases** for asset management, improving traceability and planning efficiency in urban environments.
- Performed **property classification** using ArcGIS Pro, providing spatial inputs for fiscal policy and land valuation.

PROJECTS

Post-Earthquake Damage Assessment (Master's Thesis) / *Machine Learning, Python, Remote Sensing*   **2025**
Developed a few-shot learning approach to rapidly detect building damage after earthquakes, contributing to methods for disaster response and recovery monitoring.

Paved Road Finder / *ETL, Python, PostgreSQL, QGIS*   **Feb 2024**
Built a Python-based application to determine the shortest path to the nearest paved road from rural parcels, supporting transport accessibility and rural connectivity analysis.

Mangrove Ecosystem Change Detection / *Remote Sensing, Python, ArcGIS Pro*   **Dec 2023**
Applied supervised classification techniques to satellite imagery to detect a 6.13 km² increase in mangrove coverage in India (2013–2023), demonstrating GIS use in environmental monitoring and climate resilience.

Spatiotemporal Analysis of Shootings in NYC / *SQL, ArcGIS Pro, Time-series analysis*   **Jan 2024**
Conducted hotspot and trend analysis of shootings (2006–2023), showcasing ability to handle large-scale social risk and security datasets.

LANGUAGES

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