

MARIYATHUL KIBTHIYYA M M

Environmental Engineer | ESG Data Analyst | Geoscientist | GIS Specialist
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Professional Summary

A multidisciplinary professional with experience in Environmental Science, Geology, and GIS/Remote Sensing. Skilled in ecological assessments, water and soil analysis, and spatial data mapping using ArcGIS, QGIS, and field instruments. Experienced in field research, geospatial analysis, and sustainability projects. Open to UAE-wide roles in environmental monitoring, GIS mapping, and geological fieldwork.

Technical Skills

- GIS Software: ArcGIS, QGIS, ERDAS Imagine
- Remote Sensing Tools: Google Earth Pro, USGS Earth Explorer, Bhuvan
- Environmental Tools: pH Meter, Conductivity Meter, Kjeldahl Nitrogen Analyzer
- Data Analysis: Excel, Google Sheets
- Documentation: MS Word, PowerPoint

Professional Experience

ESG Data Analyst | Straive (Remote) | Mar 2025- Jun 2025

- Analyzed and interpreted Environmental, Social, and Governance (ESG) data to evaluate the sustainability performance of corporate clients.
- Developed and maintained ESG dashboards and compliance reports to track key metrics and support client decision-making.
- Collaborated with cross-functional teams to validate data accuracy and ensure alignment with global sustainability standards, such as the Global Reporting Initiative (GRI) and the Sustainability Accounting Standards Board (SASB).
- Utilized advanced Excel functions and data visualization tools to effectively present insights and trends.
- Contributed to the preparation of sustainability disclosures and documentation for regulatory and stakeholder review.

Skills: ESG Reporting, GRI/SASB Standards, Data Validation, Excel Analytics, Sustainability Metrics, Documentation.

Academic Research Experience

MSc Dissertation | CWRDM | 2024

Title - Dynamics of LULC Changes, LST, Vegetation Health, and Climate Interactions in Buffer Zones of Four Major Wetlands in Northern Kerala: A Remote Sensing Perspective.

- Conducted time-series analysis of 4 major wetlands using satellite imagery (1990-2022).
- Quantified climate change impacts through NDVI and LST correlations.
- Used ArcGIS, and Excel to visualize data.

Skills: ArcGIS Mapping, Raster Processing, LULC Classification, NDVI/LST Analysis, Spatial Statistics

Group Dissertation | MG University | 2023

Title - Inventory of Invasive Alien Plant Species, Idukki Wildlife Sanctuary

- Documented 12+ invasive Plant species threatening native biodiversity.
- Created GIS-based distribution maps for forest management.

Skills: Biodiversity Surveying, GPS Mapping, ArcGIS, Field Documentation

Short Term Course Dissertation | Varkala Municipality | 2022

Title - Proposal of Suitable Sites for E Waste Management System.

- Designed a GIS-based framework for identifying e-waste collection and disposal locations.
- Proposed a spatially optimized management model to support urban sustainability.

Skills: Spatial Analysis, Location Suitability, GIS Modelling, Urban sustainability

Field Work

Geological Mapping and Petrological Field Study | Dharwar Region, Karnataka | 2019

- Participated in rock sampling, petrological analysis, and lithostratigraphic observations.
- Assessed mineral composition and structural features in sedimentary and igneous rock zones.

Skills: Rock Identification, Petrography, Structural Mapping

Structural and Stratigraphic Field Survey | Andhra Pradesh | 2020

- Conducted stratigraphic profiling and structural mapping in the Eastern Ghats region.
- Prepared hand-drawn maps and geologic cross-sections under expert guidance.

Skills: Stratigraphy, Structural Geology, Field Mapping

Water and Soil Sampling Field Training | Vembanad Lake, Kerala – 2023

- Collected water and soil samples to study physicochemical properties.
- Tested pH, conductivity, and temperature using field instruments.
- Training focused on analytical skills development and environmental monitoring procedures.

Skills: Water & Soil Sampling, Field Instrument Handling, Environmental Monitoring

Education

Master of Science in Environmental Science and Management
Mahatma Gandhi University

Aug 2022– Aug 2024

GIS & Remote Sensing
Mahatma Gandhi University

Mar 2022– Aug 2022

Bachelor of Science in Applied Geology
University of Calicut

Jun 2018-Apr 2021

Soft Skills

- Verbal & Written Communication
- Time Management and Multitasking
- Critical Thinking and Problem-Solving
- Leadership Cross-Functional Team Collaboration
- Analytical Thinking, Attention to Detail Organizational Skills
- Scientific Report Writing and Presentation

Languages

English, Hindi, Malayalam