

SHAYESHA WEERAKKODY

BSc (Hons) in GIS | Junior GIS & Remote Sensing Analyst

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 Portfolio: https://shayeshaweerakkody.github.io/gis_portfolio

 LinkedIn: <https://www.linkedin.com/in/shayesha-weerakkody>

CAREER OBJECTIVE

Entry-level GIS graduate with a BSc (Hons) in Geographic Information Science, skilled in spatial analysis, remote sensing, and geospatial data management. Proficient in ArcGIS Pro, QGIS, Google Earth Engine, and Python for data-driven mapping, environmental analysis, and decision support. Eager to contribute to projects involving land, water, infrastructure, and environmental management through accurate spatial analysis and clear technical reporting.

EDUCATION

Bachelor of Science (Hons) in Geographical Information Science (GIS)

University of Peradeniya | 2025 | GPA: 3.288

Key Coursework: Geospatial Analysis & Spatial Modelling, Remote Sensing & Satellite Image Processing, Spatial Database Management, Cartography, Web GIS, Digital Photogrammetry, Land Surveying, Spatial Statistics, Environmental Impact Assessment, GIS Applications in Environmental, Agricultural, Urban, Watershed & Health Planning

TECHNICAL Skills

- **Software & Tools:** ArcGIS Pro, ArcMap, ArcGIS Online, QGIS, Google Earth Engine, ERDAS IMAGINE, ENVI (basic), MapInfo, AutoCAD, GeoServer, Esri CityEngine, ModelBuilder
 - **Programming:** Python (ArcPy), R, SQL
 - **Geospatial Analysis & Methods:** Spatial & overlay analysis, Raster/vector modeling, image classification, remote sensing indices, MCDA & suitability analysis (AHP), flood, drought & watershed analysis, SAR & satellite image analysis, LiDAR & 3D city modeling, Geodatabase management, Data Visualization, Field & GNSS data collection
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PROFESSIONAL EXPERIENCE

GIS Intern

GIS Branch, Irrigation Department – Head Office, Colombo 07

Apr 2025 – Oct 2025

- Georeferenced and digitized 71 historical survey sheets (1940s) for the Allai Irrigation Scheme (Muttur) using ArcGIS Pro while ensuring spatial and topological accuracy.
- Developed and maintained a structured GIS database to support water resource management, land administration, and legal actions related to reservoir encroachments.

- Contributed to reservoir and dam mapping, flood analysis, and land assessment projects in coordination with regional irrigation offices.
- Improved GIS workflows through layer organization, symbology, and quality control.
- Hands-on experience in GIS & GNSS field data collection; strengthened teamwork and analytical skills.

Tools & Software: ArcGIS Pro, ArcMap, QGIS, Google Earth Pro, AutoCAD, GNSS, GIS database management

SELECTED PROJECTS & RESEARCH

- [Geospatial Delineation of Climate-Smart Agricultural Zones – Anuradhapura \(BSc Hons Research\)](#): GIS & remote sensing–based drought and water suitability analysis using 10-year satellite, climate, soil, topographic, and irrigation data; applied AHP-MCDA and vegetation/drought indices (NDVI, NDWI, LST, etc.) in Google Earth Engine & ArcGIS Pro to produce Maha/Yala decision-support maps for irrigation and water resource planning.
 - [Pre- & Post-Flood Analysis Using Sentinel-1 SAR – Matara \(2023\)](#): Flood extent and impact mapping using Sentinel-1 SAR, DEM, LULC, and infrastructure data; applied SAR preprocessing, water extraction, and change detection in ENVI & ArcGIS Pro to support flood management and disaster risk reduction.
 - [Historical Survey Sheet Digitization – Allai Irrigation Scheme \(1943–1955\)](#): Georeferenced and digitized 71 historical irrigation survey sheets, generating contour and terrain datasets in ArcGIS Pro to support irrigation planning and hydrological analysis.
 - [Satellite Image Classification – Galenbindunuwewa DS Division](#): Supervised Landsat LULC classification ($\approx 76\%$ accuracy; Kappa 0.577) mapping water bodies, wetlands, agriculture, and built-up areas in ArcGIS Pro for land and water-related planning.
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CERTIFICATIONS & TRAINING

Esri GIS Training Courses | Python for Programming – University of Moratuwa | Computer Programming (Python) – University of Peradeniya | R Programming - Great Learning Academy

ADDITIONAL INFORMATION

Languages: Sinhala – Native | English – Proficient

Professional Skills: Analytical thinking | Data-driven problem solving | Technical documentation & reporting | Attention to detail | Team collaboration | Quality assurance | Communication | Time management | Decision-making

REFERENCES

Available upon request