



Er. Rajesh Rokaya

Geomatics Engineer | GIS & Remote
Sensing Specialist | HEC-RAS &
Spatial Analyst

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📍 Aadarsha-5 Doti, Nepal

Education

Higher Secondary Education (+2)
Kailali Multiple Campus Dhangadhi,
Kailali
(2019 - 2021)

BE in Geomatics
Engineering at Kathmandu University
Dhulikhel, Kavre
(2021-2025)

Skills

Geospatial & Surveying

- GIS: QGIS, ArcGIS (Spatial analysis, overlay, mapping)
- Remote Sensing & Image Processing
- HEC-RAS Hydrodynamic & Flood Modeling
- Google Earth Engine (Satellite image analysis & mapping)
- Total Station & GPS Surveying
- AutoCAD & SW-DTM

Professional Summery

A Geomatics Engineer from Kathmandu University and a passionate geo-enthusiast, specializing in surveying, GIS, remote sensing, and spatial data analysis. I am dedicated to transforming geospatial data into meaningful insights that support environmental modeling, infrastructure planning, and disaster risk assessment through modern geospatial technologies and analytical approaches.

Projects

• (SURFACE IRRIGATION SUITABILITY MAPPING)

Kapagad Watershed

Conducted GIS-based land suitability analysis using ArcGIS and AHP (Analytical Hierarchy Process). Weighted overlay techniques were applied to evaluate terrain and environmental factors for identifying suitable areas for surface irrigation planning.

• (INDUSTRIAL SITE SUITABILITY SELECTION)

Dang District, Nepal

Performed spatial decision analysis using AHP-based GIS modeling to identify suitable locations for cement industries. The study was strengthened with field verification, ensuring realistic and reliable site selection outcomes.

• (FLOOD INUNDATION MAPPING USING MACHINE LEARNING & HEC-RAS)

Bagmati River, Khokana, Nepal

Developed an integrated approach combining HEC-RAS hydrodynamic modeling and machine learning techniques to simulate flood scenarios and generate flood inundation maps. The study focused on identifying flood-prone zones and supporting flood risk assessment and disaster management planning.

Declaration

I hereby declare that the information provided above is true and correct to the best of my knowledge.