Ashok Adhikari
Geomatics Engineer

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PROFESSIONAL SUMMARY

Ambitious and results-driven Geomatics Engineer with strong expertise in GIS, Remote Sensing, Spatial Data Analysis, and UAV-based surveying. Skilled in applying geospatial technology to real-world challenges through surveying, spatial modeling, and geospatial analytics using platforms such as ArcGIS, Google Earth Engine, and Python. Experienced in topographic surveying, cadastral mapping, construction layout, and environmental monitoring. Passionate about integrating advanced geospatial methods, spatial statistics, and machine learning for sustainable development and environmental research.

EDUCATION

Bachelor of Engineering in Geomatics Engineering   Pokhara

Institute of Engineering, Paschimanchal Campus   2021-2025

Science   Butwal

Kalika Manavgyan School   2017-2019

PROJECTS

Landslide Susceptibility Mapping

Bachelor's Final Year Project : Butwal–Tansen Section, Siddhartha Highway . Mapped landslide susceptibility using Frequency Ratio, Logistic Regression, and Random Forest models.

Flood Hazard Mapping, Land Use & Land Use Change Detection

Conducted independent research using Google Earth Engine for satellite image processing and time-series analysis of environmental changes.

Topographic & Cadastral Surveys

Topographic Survey, Cadastral Survey using Total Station, GNSS, and Theodolite

PROFESSIONAL EXPERIENCE

Land Use Planning Project

Participated in municipal-level land use planning under the guidelines of the Ministry of Land Management in different municipalities.

Surveying

Conducted field surveys using Total Station. Assisted in data collection and processing for topographic mapping and boundary demarcation

SKILLS

Programming : C, C++, Python (geopandas, rasterio, scikit-learn, folium)
Surveying Equipment : GNSS, Total Station, Theodolite, UAVs
GIS Software: ArcGIS, QGIS
Remote Sensing : ENVI
Google Earth Engine

TRAINING/CERTIFICATIONS

GIS Workshop : Geomatics Engineering Students' Association of Nepal (GESAN)
Participated in a 2-day hands-on training focused on GIS data handling, visualization, and practical field applications.

Google Earth Engine Workshop : Geomatics Engineering Students' Association of Nepal (GESAN)
Participated in a 2-day workshop on satellite data analysis and cloud-based geospatial processing using Google Earth Engine

UAV Drone Surveying and Data Processing : Department of Geomatics Engineering, IOE Paschimanchal Campus

GIS and Remote Sensing Training

RELEVANT COURSES

Surveying (Topographic, Cadastral, Engineering)
Geographic Information Systems (GIS)
Python Programming for Spatial Data
Digital Image Processing
Cartography and Map Design
Satellite Positioning and GNSS
Remote Sensing

LANGUAGE

English - Fluent
Nepali - Native