

SUJAN NEPALI

Panauti, Kavrepalanchok, Bagmati, Nepal

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Profile

A meticulous GIS and Remote Sensing Analyst, adept in database management, with a solid foundation of more than 6 years in utilizing geospatial-related software for GIS and remote sensing analysis. A year of prior experience as a geospatial full-time consultant and continuing another special service agreement as a geospatial analyst in ICIMOD. Additionally, I had a vibrant and inspiring role as a Geomatics instructor in GIS, Remote Sensing, Cartography, and Surveying, boasting over 4 years of imparting knowledge.

Work Experience

July 2024 - Present	Geospatial Analyst, SSA ICIMOD (International Center for Integrated Mountain Development), Khumaltar, Lalitpur, Nepal Working for the preparation of the PURE platform for Bhutan, A solution-based platform for lift irrigation potential analysis in Bhutan
July 2023 – July 2024	Geospatial Consultant ICIMOD (International Center for Integrated Mountain Development), Khumaltar, Lalitpur, Nepal Working for the preparation of the PURE platform for Nepal, A solution-based platform for lift irrigation potential analysis in Nepal
Aug 2018 - Sept 2022	Geomatics Instructor Nepal Banepa Polytechnic Institute, Banepa, Kavrepalanchok, Nepal Courses: GIS, Remote Sensing, Surveying (theory + field)
Nov 2017 - Dec 2017	Engineer Initiate Geomatics NEA Engineering Company Ltd, Maitighar, Kathmandu, Nepal Project: “Study and Analysis of Optimal Distributed Generation for Access to Grid Electricity for All in five years with the participation of Local-level Government” GIS mapping and field visit
Aug 2017	GIS Field Researcher HERD International, Kathmandu, Nepal Project: “Survey for Urban Equity” Open street mapping and field surveying using the ODK questionnaire

Education

Master of Engineering in Geoinformatics

University: Kathmandu University

Year passed: June 2024

CGPA: 3.91

Major Subjects: GIS, Remote Sensing, Digital Image Processing, Machine Learning, Deep Learning in Remote Sensing, Scientific Geo-Computing, Spatial data infrastructure & open GIS

Thesis: “Mapping winter crops using high-resolution satellite images and machine learning algorithms.”

Bachelor of Engineering in Geomatics Engineering

University: Kathmandu University

Year passed: October 2017

CGPA: 3.56

Major Subjects: GIS, Remote Sensing, Surveying, Photogrammetry, Geodesy, Spatial Database Management System, Spatial Data Infrastructure, Python

Final year project: "Land cover and fragmentation prediction of Chitwan National Park using remote sensing."

Paper Publications

Published papers

Bade, B., Schulthess, U., Blasch, G., Sherpa, S. R., Shrestha, H. L., Bajimaya, D., Pinjarla, B., Kamal, M., and Nepali, S.: Temporal Sentinel-2 Imagery for Wheat mapping and monitoring: Analyzing Phenological Stages with Machine Learning to Improve Mapping Precision for Small Farms, ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., X-G-2025, 143–149, <https://doi.org/10.5194/isprs-annals-X-G-2025-143-2025>, 2025.

Pant, P., Thapa, N., Nepali, S., Sanjel, S. (2024). Land Cover Change Before and After the Sendai Framework of Disaster Risk Reduction.

Data Publications

Bajimaya, D., Bade, B., Nepali, S., Schulthess, U., Sherpa R, S., Blasch, G., . . . Ajay, A. In-situ crop type data for the Terai region of Nepal for 2022-2023 winter season. CIMMYT Research Data & Software Repository Network.

Conference presentation

Presented on "Trend analysis of agro-meteorological parameters collected using IoT-based ground sensors."

AGSE 2021, Online-Conference, Kathmandu University, Nepal / Stuttgart University of Applied Sciences, Germany

Academic projects

- Building footprint extraction using machine learning approaches like SVM and MLP and comparing their results.
- Soil loss rate estimation using the RUSLE model of Panauti municipality.
- Project on "A Virtual 3D-model construction of an archaeological site using UAV and PiX4D software.

Training

Oct 25-Nov 4, 2018: Training on "Instructional Skills (IS-2): Classroom Focused."

TITI, CTEVT, Sanothimi, Bhaktapur, Nepal

Sep 6-Sep 8, 2016: Training on "Use of UAV for Agriculture and Building Damage Assessment"

Kathmandu University, Dhulikhel, Nepal

Skills

- Programming skills: Python, Google Earth Engine, R, Matlab
- Application development: HTML, CSS, JS
- Survey skills: Proficient in Total station, DGPS, UAV, Kobo Toolbox
- Software skills: GIS (ArcGIS Pro, QGIS, ArcGIS online), Office packages, ENVI, ERDAS Imagine, PIX4D
- Other skills include good communication, management, leadership, and field management.

Awards and achievements

- Awarded with UGC Formula Funding Scholarship for master's program, 56% at Kathmandu University
- Awarded a government scholarship for a Bachelor in Geomatics Engineering, 33% at Kathmandu University

Participations

- Trainer on “A GIS training on Basic Map Skill and Topographic Mapping” organized by Free Student Union (FSU), Lamjung Campus, held from 21st to 24th May 2018.
- Trainer on ‘Training for Developing Basic Map Skills on Disaster Management and Preparedness’ held in Jiri, Dolakha, on 23rd–29th October 2016.
- Trainer in the Map Literacy Program conducted in collaboration with the Geomatics Engineering Society (GES) and Surveyor's Society of Kavre (SSK) in different schools of Kavre District (21st to 29th November 2016).

Memberships

- Member of Nepal Engineering Council, as Geomatics Engineer of category A, 196
- Member of Geomatics Engineering Society (2013 - 2017)
- Academic and Research Coordinator of GES (2016 session for a year)

English Proficiency

Overall: 6.5 **Listening:** 7 **Reading:** 6.5 **Speaking:** 6.5 **Writing:** 6

References

Associate. Professor Subash Ghimire, PhD
Head of the Department, Department of Geomatics Engineering, Kathmandu University
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Contact: 977 9841797156

Assistant Professor Uma Shankar Panday, PhD
Department of Geomatics Engineering, Kathmandu University
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Upama A. Kaju, PhD
Geospatial Analyst, ICIMOD

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I would like to thank you for taking the time to look at my curriculum vitae. I do solemnly affirm that the information contained here is correct to the best of my knowledge and belief.