



# NIMESH BHANDARI

Geospatial Application Developer

Date of Birth: 12/08/1999

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## ABOUT MYSELF

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A Geomatics Engineer with experience in geospatial application development, spatial analysis, and mapping. I specialize in geospatial data processing and web-based mapping platforms. Passionate about continuous learning and growth, I am committed to expanding my expertise in cutting-edge geospatial technologies and contributing to impactful projects.

## SKILLS

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**Mapping and Spatial Analysis:** ArcGIS | Google Earth Engine | ArcGIS Online | QGIS | Pix4DMapper | ENVI | Autodesk Auto

**Web Development:** Python ( Django ) | JavaScript | PostgreSQL | Highcharts.js

**WebGIS Tools and Libraries:** Geoserver | Openlayers.js | ArcGIS Maps SDK JavaScript | Leaflet | GDAL | ArcPy | PSQL-PostGIS

## EXPERIENCE

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17/07/2023 - Current      **Geospatial Application Developer Associate**, Kathmandu, Nepal  
Integrated Center for International Mountain Development (ICIMOD)  
Development of digital visualization platform for monitoring progress of Sustainable Development Goal 15 indicators for Bhutan

13/03/2023 – 26/04/2023      **Geomatics Engineer Intern**, Kathmandu, Nepal  
Nest (P) Ltd.  
Preparation of GIS Datasets (Land Use Map, Land Cover Map, Cadastral Map Georeferencing, Parcel Identification) and field verification for preparation of Detailed Project Report (DPR) of Integrated Land Development (Land Pooling) at Gadhawa Rural Municipality, Dang, Nepal

04/03/2021 – 02/04/2021      **Satellite Map Validator**, Kathmandu, Nepal  
Map Nepal Consultancy Pvt. Ltd.  
Field data collection for Land Use Mapping and preparation of Land Use Map of Tadi Rural Municipality, Nuwakot, Nepal

## EDUCATION

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01/08/2018 – 23/03/2023      **Bachelor of Engineering in Geomatics Engineering**, Dhulikhel, Nepal  
Kathmandu University

10/07/2016 – 04/07/2018      **Higher Secondary School**, Pokhara, Nepal  
Shree Bhadrakali Secondary School

## PROJECTS

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- **Digital Visualization Platform for Monitoring Progress of SDG 15 indicators for Bhutan**

Interactive platform that displays the distribution of spatial datasets and the statistics in the form of infographics to monitor the progress of SDG 15 (Life on Land) indicators.

Link: <https://geoapps.icimod.org/sdg15/dashboard/bhutan>

- **Productive Use of Renewable Energy (PURE) Platform for Nepal and Bhutan**

Innovative digital platform designed to visualize potential renewable energy demand for irrigation and cost predictions across national and sub-administrative levels through graphics and tables.

Link: <http://nepal.spatialapps.net/pure> | <https://geoapps.icimod.org/BhutanPure>

## ACADEMIC PROJECTS

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2023	Comparative Analysis of Supervised Machine Learning Algorithms (Random Forest, Classification and Regression Trees and Minimum Distance Classification) for Land Cover Classification and Change Assessment Using Intensity Analysis: A Case Study of Dhangadi Sub-Metropolitan City, Nepal
2022	Shortest Route Finding Web App: Routing Application using Leaflet Library
2022	Sheet Number Finding Application in Python: Finds adjacent sheet numbers for a given sheet number according to Sheet Numbering System for Cadastral Map in Nepal
2021	Vaccine Distribution Database Management System in PostgreSQL: Systematically organize data to track and visualize the spatial distribution of households in locality administered with vaccines
2020	GIS based Multi-Criteria Decision Analysis for Waste Disposal Site Selection in Pokhara Lekhnath Metropolitan City, Kaski, Nepal

## REFERENCES

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**Reshma Shrestha, PhD** | [reshma@ku.edu.np](mailto:reshma@ku.edu.np)

Associate Professor and Head of Department, Department of Geomatics Engineering, Kathmandu University

**Sudip Pradhan** | [sudip.pradhan@icimod.org](mailto:sudip.pradhan@icimod.org)

Geospatial Application Development Specialist at ICIMOD and Geospatial Information Technology (GIT) Lead, SERVIR - Hindu Kush Himalaya (HKH)