Rabina Poudyal

Geomatics Engineer

EDUCATION

Kathmandu University

		01010J
B.E. i	in Geomatics	Engineering

- CGPA: 3.59/4.00

W

Email: poudyalrabina@gmail.com **Contact Number**: 9867278996 LinkedIn: rabina-p-23962a217 Github: github.com/rabsss

Dhulikhel, Nepal

2019-2024

GIS Engineer	Jan 2025 - Current
Kathmandu Metropolitan City	Kamaladi, Kathmandu
 Working in "Road Naming and Mapping Project" under Kathmandu Metropolitan City. 	
- Research in "Household Survey and Data Collection".	
Geomatics Engineer	Aug-Dec 2024
Genesis Consultancy Pvt Ltd.	Kathmandu, Nepal
 Working on Water and Sanitation Hygiene [WASH] project in Birendranagar for Data Integration for Integrated Municipal Information System [IMIS]. 	
– Working into PHP Language and Web-GIS for Spatial Data Integration.	
Geospatial Data Analyst Intern	March-May 2024
Kathmandu Living Labs (KLL)	Kathmandu, Nepal
- Focused on Cartography, Map Styles, EV Analysis(Python and GIS)	
She Leads She Inspires Champion	January-July 2022
Humanitarian OpenStreetMap Team	Asia-Pacific Region
 Implemented Women Mapping: Women friendly Point of Interest Project, 	
- Performed Needs identification and Decision making,	
– Applied an Advanced Remote Sensing and GIS techniques.	
Digital Mapper Intern	2021
Kathmandu Living Labs (KLL)	Kathmandu, Nepal

– Enhanced advanced mapping skills.

EXPERIENCE

 State Of The Map 2024. Participant (Selected) Presented the "Usability of the OSM in Nepal" on topic OSM Spectrum. 	September, 2024 Nairobi, Kenya
2024 International GeoInformatics Summer School (IGSS). Participant (Selected)	June, 2024 Wuhan University, China
 Presented the sustainable approach to the Impact of Urban Expansion on Forest Cover using LULC Maps, NDVI, and NDBI. 	
 CLImbing for CLImate GEOspatial School (CLIGEOS-2024). Participant (Selected) Participated in CLIGEOS-24 organized by ISPRS, LJ University, Universita Degli Studi Di Udine and CSSGS. 	April, 2024 Lumle, Nepal
 Workshop and Mapathon on Map Roads: Make your Way. Instructor (Trainer) Trained around 50 people about basic OSM. Mentored 5 days-Mapathon. 	Nov, 2023 Dhulikhel, Nepal
NEPGEOM-23, An annual event of GES. Vice-coordinator	April, 2023 Dhulikhel, Nepal
Geomatics Engineering Society (GES). Executive Member - Counted Map-Literacy in 6 schools. - Involved in different OSM Training Programs.	2021-2022 Dhulikhel, Nepal
 Workshop of Advanced Training of OSM "Training of Trainee". Participant (Selected) 2 Days Residential Workshop on Training of OSM. Became an official Trainer of OSM. 	June, 2022 Dhulikhel, Nepal

PUBLICATIONS

_	Assessing the Impact of Urban Expansion on Forest Cover using LULC	
•	Maps, NDVI, and NDBI: A Case Study of Kathmandu District.	May 2024

 Concluded that Urbanization in Kathmandu District increased rapidly from 2013 to 2021, having an adverse effect on the Forest Area. Link to Paper

Projects

•	Assessing Coral Reef Changes through Supervised Classification and correlating it with SST and Chlorophyll-A: A Remote Sensing Approach.	May 2024
	 Three machine learning algorithms were examined using Supervised Image Classification (SVC), Random Forest (RF) Classification and Regression Task (CART), and Support Vector Machine (SVM). 	
	 Created a sea surface temperature prediction model with the ARIMA model, resulted negative correlation with sea surface temperature and weak positive correlation with chlorophyll-A. 	
•	SOIL EROSION ESTIMATION USING RUSLE MODEL	
-	A Case Study of Kavrepalanchowk District.	Dec 2022
	 RUSLE Model was used, along with it's all parameters computed to determine the soil erosion rate of the location. 	
•	Suitability Analysis for the appropriate Dumpsite on Palpa District using MCDA analysis in GIS.	May 2022
	 The Analytic Hierarchy Process (AHP) Method was used in conjunction with Multi-Criteria Decision Analysis(MCDA) in GIS software to determine the best location while taking various considerations. 	

CERTIFICATE AND AWARDS

• Scholarship of 1200 Euro Grant Awarded in Global State of The Map	September 2024
• Scholarship of 9000 CNY Grant Awarded in 2024-International GeoInformatics Summer School	June 2024
• 35% Government (LMTC) Scholarship in Undergraduate Program	2019-2024
• Women Mapping Emerging Star Of Year	March, 2024
• Empowering Women in Geospatial Information Technology	June, 2023
 Attended 3 days training of Empowering women in geospatial technology program. organized by ICIMOD 	
• Most Creative Idea in the Hackathon for Field Mapping Task-Splitting Algorithm.	May 2023
 Hackathon for Field Mapping Task-Splitting Algorithm organized by NAXA, KLL, NGES, HOT, Open Mapping AP-HUB. 	
• International Geoinformatics Summer School, Wuhan University.	Aug, 2022
• 2 Days workshop of Advanced Training of OSM "Training of Trainee".	June, 2022
• "She Leads She Inspires Champion".	Jan-June, 2022
• Open Street Map and Humanitarian mapping by United Nations Global Centre.	April, 2022
• Webinar envisioning spatial analysis through SuperMap: A new era of Geospatial Science	May, 2021

SKILLS

- **Surveying:** UAV Survey, DGPS, Stake-out, Cadastral Survey, Road Survey, Bridge and Hydropower Survey
- Geospatial and Visualization tools: QGIS, ENVI, Postgresql, Web-GIS, JOSM, Google Earth Engine
- **Programming:** C, C++, JAVA, Python
- Typesetting: Latex

LANGUAGES

- English: Fluent
- Nepali: Native
- Hindi: Conversational