Riya Pokhrel

Nationality: Nepalese   **Date of birth:** 09/06/2000

📞 **Phone number:** (+977) 9860318666   ✉ **Email address:** reeya5733@gmail.com

📍 **Home:** Arghakhanchi (Nepal)

📍 **Other:** Kathmandu (Nepal)

WORK EXPERIENCE

Geospatial Data Associate-Consultant

International Centre for Integrated Mountain Development (ICIMOD) [17/07/2023 – Current]

City: Kathmandu | **Country:** Nepal | **Website:** www.icimod.org | **Name of unit or department:** Innovation and Digital Technology

International Research Center of Big Data for Sustainable Development Goals (CBAS)-ICIMOD Partnership Project
- Generated thematic datasets and related indicators on SDG 15: Life on Land for Nepal, Bhutan and Bangladesh
- Contributed as a resource person in capacity building activities

Agro-Ecological Zoning in Karnali under Himalayan Resilience Enabling Action Programme (HI-REAP)
- Carried out crop suitability assessment for high-value agricultural commodities using GIS and Analytical Hierarchical Process (AHP)

Sub-national biophysical indicator mapping on collaboration with Forest Research and Training Centre, Nepal and supported by the World Bank
- Carried out forest type classification in Nepal using machine learning algorithms in Google Earth Engine

Geomatics Engineering Intern for Land Pooling Project in Dang, Nepal

NEST (P) Ltd. [12/03/2023 – 21/04/2023]

City: New Baneshwor, Kathmandu | **Country:** Nepal

- Aligned free sheet cadastral maps with satellite imagery to produce georeferenced maps of the study area
- Included participatory GIS approaches to integrate community feedback into spatial planning and decision-making processes

EDUCATION AND TRAINING

Bachelor of Engineering in Geomatics Engineering

Kathmandu University [08/2018 – 05/2023]

City: Dhulikhel | **Country:** Nepal | **Website:** www.ku.edu.np | **Final grade:** 3.83/4

Relevant Modules
- Geographic Information System
- Remote Sensing
- Photogrammetry
- Python
- Spatial Database Management System

Earth observation for advancing regional sustainable development in Hindu Kush Himalaya

ICIMOD and the Aerospace Research Institute of Chinese Academy of Sciences (AIRCAS) [25/09/2023 – 29/09/2023]

Empowering women in Geospatial Technology

ICIMOD [16/08/2022 – 19/08/2022]

High School Degree

Nepal Examination Board [2015 – 2017]

Field(s) of study: Science | **Final grade:** First division with distinction, 79%

PROJECTS

Estimation of tropospheric water vapor content by ground based GNSS observation and InSAR in Bagmati province, Nepal

GIS based landslide susceptibility assessment using frequency ratio method in Sindhupalchowk district, Nepal

Site suitability analysis for waste disposal site location using geographic information system and multi-criteria decision analysis: A case study of Arghakhanchi district, Nepal

Wetland mapping and change analysis of Chhayanath Rara Municipality, Nepal

HONOURS AND AWARDS

[25/06/2023] Nepal Engineering Council

Registered Engineer
  • Registration awarded through rigorous examination process

Department of Geomatics Engineering

Kathmandu University Merit Based Scholarship 2020, 2021, 2022, 2023
  • Awarded to student with highest GPA in class

Land Management Training Centre, Ministry of Land Management, Cooperatives and Poverty Alleviation

Provincial Merit Based Scholarship, 2018
  • Merit based scholarship awarded to three students from each province pursuing Geomatics Engineering in Kathmandu University

DIGITAL SKILLS

Programming language

Python / JavaScript

Geospatial Analysis

Geographic Information System: ArcGIS(ArcMap, ArcGIS Pro and ArcGIS Online) , QGIS / Remote Sensing: ENVI, SNAP / Google Earth Engine / Cartography

Database Management

PostgreSQL, MySQL

Others

Microsoft Office (Outlook, Excel, Word, PowerPoint)

LEADERSHIP AND NETWORKING

[2021 – 2022]
Treasurer, Geomatics Engineering Society, Kathmandu University

[11/2017 – 06/2018]
Fellow, Young Women Political Leadership Institute, Women Lead Nepal

VOLUNTEERING

[20/01/2024 – 27/01/2024] Dasarath Stadium, Kathmandu, Nepal
11th Kinder Olympics 2080
- Supported pre-school children in participating in various games
- Assisted organizers with crowd management and smooth execution of the event

[07/2021 – 09/2021]
COVID-19 Support and Community Awareness
- Distributed medical supplies, food and hygiene kits to affected families
- Raised awareness on COVID-19 preventive measures and coordinated with local healthcare teams to help monitor quarantine zones

[21/11/2018]
World GIS Day 2018
- Supported in installation of stalls to showcase geospatial projects completed by students of Kathmandu University

LANGUAGE SKILLS

Mother tongue(s): Nepali

Other language(s): English (Fluent) | Hindi (Comprehension)