



# SAKAR DHAKAL

**Date of birth:** 13/10/2000 | **Nationality:** Nepalese | **Phone number:**

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**Address:** Chitwan, Ward 7, 44207, Bharatpur, Nepal (Home)

## WORK EXPERIENCE

06/01/2024 – CURRENT Des Plaines, IL, 60016, United States

### **GISCORPS VOLUNTEER** URISA

- Online contribution in human-environment concerns through maps submission
- Actively engaging in local/global issues
- Usage of varied remote sensing objects including datasets and software

**Email** [info@giscorps.org](mailto:info@giscorps.org) | **Website** [www.giscorps.org](http://www.giscorps.org)

11/11/2023 – 11/11/2023 Hetauda

### **BASIC GIS TRAINING PROGRAM** STUDENT'S UNION, INSTITUTE OF FORESTRY

- Worked as the program organizer and manager
- Class presentation to junior students
- Basic GIS terminologies, cartography and geoprocessing tools lessons taught

03/06/2023 – 03/06/2023 Kakrebihar

### **VOLUNTEER - UNMANNED AERIAL VEHICLE (UAV)/DRONE TRAINING** DIVISION FOREST OFFICE

- Managing technical parts of the training
- Distribution of foods and coordination with the staff members

06/07/2022 – 15/08/2022 Chitwan and Rautahat, Nepal

### **FOREST TECHNICIAN - OPERATIONAL PLAN FOR COMMUNITY-BASED FOREST MANAGEMENT (CBFM) PROJECT** DISTRICT FOREST OFFICE

- Forest species inventory and data collection through primary data sources
- Mapping with the use of QGIS and ArcGIS
- Data analysis using R and MS Office Suites
- Official presentation among the stakeholders

29/01/2023 – 30/05/2023 Birendranagar, Nepal

### **RESEARCH-INTERNSHIP** FOREST RESEARCH AND TRAINING CENTER

- Research activities on project, " Time-series analysis of forest disturbance trends in Karnali province using LandTrendr algorithm"
- Use of JavaScript API and R for data analysis and ArcGIS 10.8 Desktop for cartography
- Office management
- Field works related to forest management including LiDAR instrument training
- Presentation of project to the forest officials

## EDUCATION AND TRAINING

25/09/2018 – 29/12/2023 Hetauda, Nepal

### **PROVISIONAL BACHELOR'S DEGREE CERTIFICATE** Institute of Forestry, Tribhuvan University

- Forest management practices, policies and extensions enlightenment
- Advanced use of remote sensing objects in environmental conservation
- Practical experience through trainings, seminars, field works and workshops
- Role of individuals, governments and political parties in forest protection
- Need for cooperation among national and international bodies for sustainability

**Website** [www.tu.edu.np](http://www.tu.edu.np) | **Final grade** 74.83% |

**Thesis** Time-series analysis of forest disturbance trends of Karnali province using LandTrendr algorithm

**Website** [www.neb.gov.np](http://www.neb.gov.np) | **Field of study** Education | **Final grade** 3.36 CGPA

01/01/2007 – 14/03/2016 Bharatpur  
**SCHOOL LEAVING CERTIFICATE (GRADE X)** HSEB

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**Website** [www.neb.gov.np](http://www.neb.gov.np) | **Field of study** Education | **Final grade** 3.70

**"ASSESSING THE IMPACTS OF FIRES ON WATERSHED HEALTH", "MONITORING WATER QUALITY OF INLAND LAKES USING REMOTE SENSING" AND "SAR FOR DETECTING AND MONITORING FLOODS, SEA ICE, AND SUBSIDENCE FROM GROUNDWATER EXTRACTION"** Advanced Training, ARSET, NASA

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**Website** <https://appliedsciences.nasa.gov/what-we-do/capacity-building/arset>

**"TRANSFORMING EARTH OBSERVATION (EO) DATA INTO BUILDING INFRASTRUCTURE DATA SETS FOR DISASTER RISK MODELING" AND "SATELLITE DATA FOR AIR QUALITY ENVIRONMENTAL JUSTICE AND EQUITY APPLICATIONS"** Intermediate Training, ARSET, NASA

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**Website** <https://appliedsciences.nasa.gov>

**2023 PACE APPLICATIONS WORKSHOP** NASA Plankton, Aerosol, Cloud, ocean Ecosystem (PACE) Applications Program

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**Website** <https://pace.gsfc.nasa.gov/>

Redlands, United States

**"SPATIAL DATA SCIENCE: THE NEW FRONTIER IN ANALYTICS", "GIS FOR CLIMATE ACTION", "IMAGERY IN ACTION" AND "PYTHON FOR EVERYONE"** ESRI

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**Website** [www.esri.com](http://www.esri.com)

**GIS SPECIALIZATION COURSES: "FUNDAMENTALS OF GIS", "GIS DATA FORMATS, DESIGN AND QUALITY", "GEOSPATIAL AND ENVIRONMENTAL ANALYSIS", "IMAGERY, AUTOMATION AND APPLICATIONS"** Coursera

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**Website** [www.coursera.org](http://www.coursera.org)

**"R PROGRAMMING" AND "DATA ANALYSIS WITH R PROGRAMMING"** Coursera

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**Website** [www.coursera.org](http://www.coursera.org)

**AUTODESK CERTIFIED PROFESSIONAL: AUTOCAD FOR DESIGN AND DRAFTING EXAM PREP** Coursera

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**Website** [www.coursera.org](http://www.coursera.org)

[www.edx.org.com](http://www.edx.org.com)

**NATURE-BASED SOLUTIONS FOR DISASTER AND CLIMATE RESILIENCE** UNEP, PEDRR, SDG Academy and the EdX Platform

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**CLIMATE CHANGE NEGOTIATIONS: LEVERAGING LOCAL EXPERIENCE IN SUPPORT OF CLIMATE CHANGE NEGOTIATIONS** LoCAL, UNCDF and UNITAR

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**Website** [www.unitar.org](http://www.unitar.org)

## ● LANGUAGE SKILLS

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Mother tongue(s): **NEPALESE**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C1	C1	C1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## DIGITAL SKILLS

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### Software

Software GIS (ESRI ArcGIS Desktop ESRI ArcGIS PRO ESRI ArcGIS Online QuantumGIS) | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | EDRAS Imagine | AutoCad 2D -3D | IBM Statistical package for Sciences (SPSS)

### Programming languages

R Programmimg | JavaScript API | Knowledge of SQL. | Python Language - Basic knowledge

### Datasets

OpenStreetMaps | USGS Earth Explorer | ESA Copernicus Open Access Hub Sentinel Hub EO browser | Google: Google Earth Pro

## ADDITIONAL INFORMATION

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### PUBLICATIONS

**Time-series analysis of forest disturbance and recovery trends in Karnali province using LandTrendr algorithm.**

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Dhakal S., Aryal K.R., Adhikari H., Sharma S., 2024. Under final peer reivew.

**Effects of forest management on forest structure and diversity: A case study of Surkhet district, Nepal.**

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Sharma S., Acharya K., Adhikari H., Aryal K., Dhakal S., 2024. Under peer review.

**Assessment of land cover change and its impact on changes in soil erosion risk in Karnali province.**

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Verma A., Dhakal S., 2024. Under peer review.