

# Bio-Data



## PRASHID KANDEL

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"Discover, Connect,  
Grow: Exploring the  
Nature Together!"

*Experienced and dedicated professional with a decade of valuable contributions in NGOs & Firms, as well as academic institutes. Possessing a robust background in Forest and Natural Resource Management and Environmental Issues, complemented by extensive practical expertise. Adept at integrating theoretical knowledge with real-world applications. Demonstrated proficiency in spatial knowledge, leveraging technology for enhanced resource management. I take pride in my strong organizational abilities, which ensure efficient project execution. Moreover, my fervent enthusiasm for collaboration drives success within diverse and dynamic teams. Furthermore, my profound passion for research in the forestry sector is coupled with a keen interest in the seamless integration of cutting-edge technology, driving innovative discoveries and advancements within this field. My motivation lies in conducting comprehensive gap analyses within the forestry and natural resource management domains, with the ultimate aim of contributing significantly to societal development.*

## Skills

### Languages

- Nepali (Native)
- English (fluent in both writing and speaking)
- Hindi (Fluent in Speaking)

Analytical and Research Skills, Strategic thinking, Project Management Skills, Effective Communication, Flexibility, Adaptability, Intercultural Competence; Diplomatic, Networking and Negotiation, Financial Management, Resource Mobilization, Advocacy and Public Speaking

## Academic Qualification

<u>Degree</u>	<u>Grade/ Division</u>	<u>University/ Institute</u>
<b>Post Graduate Diploma in Remote Sensing and GIS (2017)</b> "Specialization in Forest & Ecology" <b>Thesis Title:</b> Forest Ecosystem Services Assessment Using Geospatial Approaches in Paligad Micro-watershed in Garhwal District, Uttarakhand, India	FIRST	Indian Institute of Remote Sensing (Affiliated to United Nations), Dehradun, Uttarakhand, India
<b>M.Sc. GIS (2014)</b> <b>Thesis Title:</b> Identification of Suitable Areas for Olive Plantation in North-Western Nepal based on Empirical and Secondary Observations (A Case Study from Ten Mountainous Districts of North-Western Nepal)	FIRST	University of Salzburg, Austria
<b>B.Sc. Forestry (2011)</b> <b>Thesis Title:</b> Contribution of Community Forest on Livelihood Improvement of Disadvantage Group of People (A Case Study from Ramechhap District, Nepal)	FIRST	H.N.B Garhwal University, Srinagar, Uttarakhand, India

<b>I.Sc. Forestry (2005)</b>	FIRST	Institute of Forestry, Tribhuvan University, Hetauda, Makwanpur, Nepal
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## *Working Experience*

**Kathmandu Forestry College (KAFCOL) – Since 2012 in Several Position**  
Balkumari, Koteswor – Kathmandu

Post: **Faculty/Program Officer – UNIGIS/NRMRD** July 2019 onwards

- Support the Program Coordinator of the MSc. GIS and MSc. NRMRD programs in effectively managing the classes and ensuring smooth operations.
- Oversee the management of staff members and students within the programs. This includes coordinating schedules, addressing administrative needs, and facilitating effective communication between faculty, staff, and students.
- Deliver high-quality instruction and training on GIS application in the context of forestry and climate change. Design and implement curriculum, lesson plans, and teaching materials to enhance student learning outcomes.
- Assist in the development of research proposals and guide students in writing high-standard research reports. Provide support and expertise in research methodologies, data analysis, and report presentation.
- Collaborate with colleagues and students on research projects related to GIS, forestry, and natural resource management.
- Offer guidance and mentorship to students, both academically and professionally. Support their academic progress, career development, and research endeavors.
- Assist with administrative tasks such as maintaining records, preparing reports, managing course materials, and coordinating with relevant departments and stakeholders
- Provide academic support to students by conducting workshops, tutorials, and individual consultations.
- Offer guidance on coursework, assignments, and academic performance improvement.

### SUBJECT TAUGHT

1. Computer Application in Forestry	Diploma Forestry: 1 <sup>st</sup> year & 3 <sup>rd</sup> Year
2. Introductory GIS	B.Sc. Forestry: 3 <sup>rd</sup> year 1 <sup>st</sup> Semester
3. Data Sources and Acquisition (DATSRCAQ)	M.Sc. GIS: 3 <sup>rd</sup> Module
4. Visualization and Cartography (VISCARTO)	M.Sc. GIS: 6 <sup>th</sup> Module

Post: **Visiting Faculty** April 2017 – March 2019

- Teach to undergraduate and diploma-level students.
- Act as an online and/or classroom-based instructor whenever required for a specific module of M.Sc. GIS.
- Assist in writing Proposals and report with the highest level of quality standards.
- Conduct training on GIS and remote sensing as per the needs of the students and other stakeholders.

### SUBJECT TAUGHT

1. Computer Application in Forestry	Diploma Forestry: 3 <sup>rd</sup> Year
2. Soil Conservation & Watershed Management	Diploma Forestry: 2 <sup>nd</sup> Year
3. Introductory GIS	B.Sc. Forestry: 3 <sup>rd</sup> year 1 <sup>st</sup> Semester
4. Data Sources and Acquisition (DATSRCAQ)	M.Sc. GIS: 3 <sup>rd</sup> Module

Post: **Instructor** January 2015 – June 2016

- Teach to Undergraduate and Diploma level students.

- Instruct and supervise the students for operating various software like R, MaxEnt, QGIS, ArcGIS, etc.
- Participate in activities such as student registration, orientation, convocations, and commencements.
- Provide academic advising to students and engage in pursuits that enable them to remain current in their respective disciplines.
- Carry out other academics, research, and outreach activities as assigned by the college, with the highest level of quality standards.
- Assist the Academic Coordinators to enforce and monitor the College rules relating to students' conduct (aachar sanhita).

**SUBJECT TAUGHT**

<ol style="list-style-type: none"> <li>1. Computer Application in Forestry</li> <li>2. Forest Extension</li> <li>3. Soil Conservation &amp; Watershed Management</li> <li>4. Aerial Photogrammetry</li> <li>5. GIS application in NRM</li> </ol>	Diploma Forestry: 3 <sup>rd</sup> Year Diploma Forestry: 3 <sup>rd</sup> Year Diploma Forestry: 2 <sup>nd</sup> Year B.Sc. Forestry: 2 <sup>nd</sup> year 2 <sup>nd</sup> Semester B.Sc. Forestry: 4 <sup>th</sup> year 7 <sup>th</sup> Semester
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Post: **Research Assistant**

January 2012 to December 2014

- Teach at least two courses to the Diploma level throughout the year.
- Assist B.Sc. and Diploma Program Coordinators in planning and implementing field tours and excursions.
- Assist the college management in organizing training, seminars, and talk programs.
- Assist M.Sc. GIS Course coordinators in maintaining GIS labs and equipment.

**SUBJECT TAUGHT**

<ol style="list-style-type: none"> <li>1. Forest Extension</li> <li>2. Soil Conservation &amp; Watershed Management</li> </ol>	Diploma Forestry: 3 <sup>rd</sup> Year Diploma Forestry: 2 <sup>nd</sup> Year
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Post: **Senior Project Officer**  
Bird Conservation Nepal (BCN)

May 2017- June 2019  
Lazimpat, Kathmandu

- Lead and manage the projects "Mainstreaming Biodiversity and Ecosystem Services into Operational Plan of Community Forest of Nepal" with a specific focus on climate change adaptation and mitigation.
- Develop project plans, set goals and objectives, and establish timelines to ensure successful project implementation.
- Collaborate with diverse stakeholders such as government agencies, NGOs, local communities, and scientific experts to foster partnerships and promote effective collaboration.
- Conduct research and data analysis on biodiversity conservation, climate change impacts, and mitigation strategies. Stay updated with scientific literature, policies, and best practices related to biodiversity and climate change to inform project decisions and strategies.
- Provide training and capacity-building activities to project team members, local communities, and relevant stakeholders. Enhance their understanding of biodiversity conservation, climate change impacts, and adaptation strategies, enabling them to actively contribute to project objectives.
- Design and implement monitoring and evaluation frameworks to assess project progress and outcomes.
- Prepare project reports and documentation, including progress reports, technical reports, and impact assessments. Effectively communicate project findings, outcomes, and lessons learned to a range of audiences, including donors, policymakers, and local communities.

- Contribute to fundraising efforts by identifying potential funding sources, preparing grant proposals, and developing project budgets.

Post: <b>Field Coordinator</b> Rupantaran Nepal, Interim Forestry Project	<u>September 2011 to November 2012</u> Manthali, Ramechhap
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- Evaluation of carbon stock in forests of Fulasi and Daduwa VDCs, Ramechhap district under “Payment in Environment Service (PES)” program.
- Coordinate and manage LRPs (Local resource Persons) for conduction of field-based activities of the organization, and also to facilitate group discussions between CFs and Forest Department.
- Also responsible to conduct forest inventories in various CFs of Ramechhap district.
- Report preparation of carbon stocking of Community Forest User Group (CFUGs).

Post: <b>Forest Technician/Ranger</b> Jana Bhabana Yuva Club collaborated with Nepal Swiss Community Forestry Project (NSCFP)	<u>March 2005 -April 2007</u> Manthali, Ramechhap
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- Conduct forest inventories and household surveys in various VDCs of Ramechhap districts.
- Facilitate meetings/discussions of forest user groups.
- Co-ordination and lobbying with District Forest Officers, Rangers and project staffs.
- Assessment of major NTFPs such as Daphne bholua, Edgeworthia gardneri & Girardiana diversifolia.
- Preparation of Operational Plan for Community Forest.

#### PROJECTS INVOLVEMENT

1.	Position Duration Client Project Name Tasks	<b>Team Leader</b> July –September 2023 ISET Nepal <b><u>Multi Hazards Risk Mapping in Community Homestay</u></b> Coordinating the team, risk assessment, technology integration, Analysis & Reporting
2.	Position Duration Client Project Name Tasks	<b>Climate Expert</b> January – July 2023 FRTC-Madhesh Province/IDBS Nepal & BARDAN JV Identifying and Mapping Seed Stands of Tree Species Already Impacted or/and Likely to be Adversely Impacted by Climatic Stressors, and Anthropogenic Threats in Madhesh Province Climate assessment, Risk assessment, Spatial analysis, species selection, Conservation Strategies and Reporting & Communications
3.	Position Duration Client Project Name Tasks	<b>Team Leader</b> December 2021 – May 2022 Forest Directorate- Bagmati Province/ SMART-BHUGOL-SHILANI JV <b><u>Study the Condition of Tree Outside Forest of Whole Bagmati Province</u></b> Development of standard methodology for quantification of TOF using geospatial approaches; preparation of the quality report.
4.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> August 2021- November 2021 Changunaryan Municipality/ Shilani Devi Green Eyes Nepal <b><u>IEE Report Preparation of 4 Different Components of Changunaryan Municipality</u></b> Data acquisition & map Preparation that are required for the project
5.	Position Duration Client Project Name Tasks	<b>Team Leader</b> April – June 2021 Forest Directorate -Sudurpaschim province/ SMART PVT Ltd. <b><u>Study of Forest Fire Impact Area and Roles of Local Forest User Groups for Mitigation of Forest Fire</u></b> Geodatabases preparation; Potential fire modeling; & report writing

6.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> August – December 2020 REDD-IC/ Green Era Pvt. Ltd <b><u>Revision of Scientific Forest Management Plan Cluster of Kanchapur and Dhangadi</u></b> Database preparation, geoprocessing and generate different types of maps required for the forest management
7.	Position Duration Client Project Name Tasks	<b>GIS Specialist</b> Dec 2019 – May 2020 MOITFE-Bagmati Province/ SMART Pvt. Ltd. <b><u>Vegetation Analysis of Upper region of Dhading District</u></b> Species distribution modeling and final map composition with some major analysis; Analyze the field data and generate a draft report
8.	Position Duration Client Project Name Tasks	<b>GIS &amp; Remote Sensing Expert</b> Nov 2019 – May 2020 Langtang National Park (LNP)/ REFAD Pvt. Ltd. <b><u>Study of Musk Deer in Langtang National Park</u></b> Data Collection, Preparation of parameters map and habitat modeling of Musk deer, Report Preparation
9.	Position Duration Client Project Name Tasks	<b>GIS expert</b> Nov 2019- April 2020 MOITFE, Bagmati Province/ Shilani Devi Green eyes Nepal <b><u>Feasibility Study On Establishment of Open Zoo for Monkey Conservation in Bagmati Province</u></b> Data Collection, Verification, Literature review, Methodology Prepared and Mapping and Analysis and Preparation of the Report.
10.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> April – October 2019 NTNC/DNPWC – ESN <b><u>Preparation of Manaslu Conservation Area Management Plan (2019-2023)</u></b> Generation of Geodatabase and prepare GIS maps that are required for the preparation of management plan.
11.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> July 2019-February 2020 DUDBC/Cube-Abhyantra-Bhugol JV <b><u>IUDP – Preparation of Metric Address System of Krishnanagar and Shivarai Municipality</u></b> Orthorectification, Digitization, Digital Base Map Preparation, and Final Report Writing
12.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> June 2019- December 2019 TSLUMD, Survey Department/ Esteem Info JV Geo Info Solution & research Service in association with Syntech Engineering Pvt. Ltd. <b><u>Preparation of Land Resource Maps, Database, and Reports of Gaupalika/ Nagarpalika level</u></b> Digitization, Geodatabase creation, and Flood risk modeling using HECRAS of Myagdi district
13.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> May- June, 2019 Divisional Forest Office, Accham/ Green Era Pvt. Ltd <b><u>Marketing, Value Chain Study and Development of High Value NTFP</u></b> Modelling of pocket areas of key NTFP species and mapping of trade route
14.	Position Duration Client Project Name Tasks	<b>GIS Expert and Data Analyst</b> April – June, 2019 REDD IC/Green Era Pvt. Ltd. <b><u>Agroforestry Program Study in Terai District: Nawalparasi, Rupandehi and Kapilbastu</u></b> Data Collection, Geodatabase creation, spatial and statistical analysis and preparation of final map
15.	Position Duration Client Project Name Tasks	<b>GIS Specialist</b> September 2018 – July, 2019 Gaumul Rural Municipality, Bajura/ Green Era Pvt. Ltd. <b><u>Feasibility study of Forest Resource focusing MAPs/NTFPs</u></b> Suitability modeling of 100+ NTFPs and trade route mapping
16.	Position Duration	<b>Remote Sensing and GIS expert / Environment Expert</b> August to December, 2018

	Client Project Name Tasks	DUDBC/ NREC, Kathmandu <b><u>Integrated Urban Development Project</u></b> GIS mapping; Geodatabase and Metadata creation of 25 different environment and biophysical variables of 44 Municipalities of western Nepal Preparation of Disaster Risk Reduction plan, Environment Management Plan and Climate Change Adaptation plan of 44 Municipalities
17.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> May to June, 2018 Bhanubhakta Zoological Garden Office/Green Era Pvt. Ltd. <b><u>Master plan preparation of Bhanubhakta Zoological garden</u></b> GIS mapping and geodatabase creation
18.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> December, 2017 – June, 2018 TSLUMD, Survey Department/ Esteem Info JV Fly & NBC Pvt. Ltd. <b><u>National Land use Project</u></b> Preparation of Land Resource Maps, Database and Reports of Gaupalika/ Nagarpalika level Digitization, Geodatabase creation, and various risk modeling of 2 local level of Argakhanchi district
19.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> May, 2017 Rara National Park/ Research & Development Centre Pvt. Ltd. <b><u>Preparation of Management Plan of Rara National Park</u></b> Preparation of Map on different themes to be included in the management plan
20.	Position Duration Client Project Name Tasks	<b>GIS Expert</b> January to March, 2015 Department of Soil Conservation & Watershed Management <b><u>Sub-watershed Prioritization by Socioeconomic Factor Using GIS Approach</u></b> Delineation, identification, and prioritization of sub-watersheds of Bajhang, Bajura, Kailali, Dang and Udayapur districts

### ***Additional Information***

- I have actively engaged in developing concept notes and proposals focusing on diverse environmental issues, sustainable development, and community empowerment. One particularly captivating project that stands out is "**Project Dharatal**," an innovative landscape designing initiative with the potential to become a national undertaking.
- I possess a diverse skill set, notably excelling in the use of various software applications such as ArcGIS, QGIS, ERDAS Imagine, ENVI, and R. These tools have been instrumental in my capacity to analyze real-world problems effectively, particularly in the fields of forestry and environmental science. However, what truly sets me apart is my unwavering commitment to continuous learning and adaptation. I have a strong appetite for acquiring new skills and staying up-to-date with emerging technologies, recognizing their pivotal role in addressing contemporary challenges.
- Just recently, I organized a highly successful workshop titled "Mastering AI on Academic Writing Success." This initiative aimed to bridge the gap between cutting-edge artificial

intelligence technology and academic writing proficiency. Through this workshop, I sought to equip undergraduate students with the skills and insights needed to harness AI tools in their academic endeavors. It was a testament to my commitment to fostering technological literacy among students, allowing them to leverage these tools for academic excellence and beyond.

## ***Publications***

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1. Ayer, K., **Kandel, P.**, Gautam, D., Khadka, P., & Miya, M. S. (2022). Comparative Study of Carbon Stock and Tree Diversity between Scientifically and Conventionally Managed Community Forests of Kanchanpur District, Nepal: *Environment and Natural Resources Journal*, 20(5), 494-504.
2. Lamichhane, A., Mandal, R.A., **Kandel, P.** (2021), Carbon Dynamics in Protected Areas and Community Managed Forest: A Study from Banke, Nepal: *Open Journal of Geology* 3(2):55-68
3. Thani, P. R., & **Kandel, P.** (2021). Species richness in community forestry and exploration of the relationship among flora and fauna: *Res. J. Agriculture and Forestry Sci*, 9(2), 32-43.
4. Thani, P. R., & **Kandel, P.** (2021). Contemporary Challenges and Solutions for Equity and Social Inclusion in Community Forestry, Nepal: A Review. *IAR J Agri Res Life Sci*, 2(2), 1-8.
5. Thani, P. R., & **Kandel, P.** (2021). A review of community forestry contributions to livelihood assets in Nepal and contemporary challenges. *IAR J Agri Res Life Sci*, 2(1) 41-49.
6. Thani, P.R., Kc, R., Sharma, B.K., **Kandel, P.**, & Nepal, K. (2019). Integrating biodiversity conservation and ecosystem services into the operational plan of community forest in Nepal: status and gaps. *Banko Jankari*, 29(1), 3-11.
7. Lama, M., Mandal, R.A., & **Kandel, P.** (2019). Effects of Ecotourism on Land Use Land Cover Dynamics: A Study from Shivapuri Watershed. *Agriculture Research & Technology*, 19(5): 556105. DOI: 10.19080/ARTOAJ.2019.19.556105
8. Sharma, R., Rimal, B., Baral, H., Nehren, U., Paudyal, K., Sharma, S., Rijal, S., Ranpal, S., Acharya, P.R., Alenazy, A.A., and **Kandel, P.** (2019). Impact of Land Cover Change on Ecosystem Services in a Tropical Forested Landscape. *Resources*, 8(18) DOI: 10.3390/resources8010018.
9. **Kandel, P.**, Gautam, A., S, S., Thani, P.R. (2018). Suitable Site Selection for Plantation of Olive by Using Multi-Criteria Analysis along with GIS in Ten Mountainous Districts of Northwestern Nepal. *International Research Journal of Earth Sciences*, 6(6), 1-8.
10. Thani, R.P., Sharma, P.Y., **Kandel, P.** (2018). Phytochemical studies on Indian market samples of drug “Kutki” (Picrorhizakurroa Royle ex Benth). *Research Journal of Agriculture and Forestry Sciences*, 6(2), 1-5.
11. Thani, R.P., Sharma, P.Y., **Kandel, P.**, & Nepal, K. (2018). Standardization of Extraction Techniques of Picroside-I and Picroside-II from “Kutki” (PicrorhizakurroaRoyle ex Benth). *Global Journal of Science Frontier Research: C Biological Science*, 18(1), 51-56.

12. **P.Kandel** (2018): A Technical report on Socio-Economic Baseline Studies on Madane IBA (Important Biodiversity Areas) of Gulmi District, Nepal

## ***Membership / Affiliation***

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1. *Nepal forester Association (NFA) – Life Member*
2. *Bird Conservation Nepal (BCN) – Life Member*
3. *Nepal GIS Society – General Member*
4. *DIBNS, Dehradun- Alumni*
5. *UNIGIS, Austria – Alumni*
6. *CSSTEAP, Dehradun – Alumni*

## ***Referees***


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## ***Statement of Authenticity***

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*I, the undersigned, solemnly affirm and declare that, to the utmost extent of my knowledge and belief, this curriculum vita faithfully represents me, my qualifications, and my extensive professional experience in the domains of Forestry, Geographic Information Systems (GIS), and Natural Resource Management. It is a sincere reflection of my unwavering dedication to the conservation and sustainable management of our natural resources.*



9/12/2023