

# Sudeep Jogi Kanwar

Address: Devdaha-2, Rupandehi, Nepal

✉ [jkwrsudeep123@gmail.com](mailto:jkwrsudeep123@gmail.com) | [in](#) Sudeep Jogi Kanwar | ☎ +977-9847435703

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## Research Interests

- 1. Geospatial Data Analysis: GIS, Remote Sensing, and Spatial data for environmental monitoring
- 2. Advanced Forest Analytics: Data Science and Machine Learning in Forestry Management
- 3. Forest Ecology: Biometrics, Fire Ecology, and Sustainable Forest Management

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## Education

- Forestry, Bachelor of Science 2018-2023  
*Faculty of Forestry, Agriculture and Forestry University ([afu.edu.np](http://afu.edu.np))* Hetauda, Nepal  
*CGPA: 3.50 out of 4*
- Science, National Examination Board 2016-2018  
*Glorious Secondary School (High School)* Rupandehi, Nepal
- School Leaving Certificate 2004-2016  
*Asian Light English Boarding School (Grade X)* Rupandehi, Nepal

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## Experiences

- **Internship** February 2023-July 2023  
*Division Forest Office* Rasuwa, Nepal
  - Assisted in forest resource inventory and community forest operational plan preparation
  - Geospatial mapping, data interpretation, and analysis
  - Conducted Focus Group Discussions (FGDs) and Key Informant Interviews (KIIs) for data collection
  - Engaged with local communities to understand forest resource dependency and enhance communication skills
  - Gained practical knowledge of community forestry, forest policy, and participatory planning
  - Developed skills in field data collection, teamwork, and technical reporting

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## Skills

- Software Tools and Programming Language *MS Office, ArcGIS, Google Earth, Google Earth Engine, Python* Technical Skill: Strong
- Communication Skills *Interpersonal, verbal, written, and digital communication* Technical Skill: Strong

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## Research Publication

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- Kanwar, S.J., Dhakal, M., Parajuli, A. (2025). *Forest Fire Risk Assessment using Machine Learning and Earth Observation Technique in Himalayan Regions: Insights from Rasuwa District, Nepal*. (Manuscript is under review at Natural Hazards and Earth System Sciences (NHESS), a peer-reviewed journal of the European Geosciences Union (EGU))
- Kanwar, S. J. (2023). *Forest Fire Risk Mapping Using Geographic Information System and Analytic Hierarchy Process in Rasuwa District, Nepal*. Bachelor's thesis, Faculty of Forestry, Agriculture and Forestry University, Nepal.

## *Skills Gained During Undergraduate Thesis Work and Manuscript Preparation*

- Reviewed and synthesized relevant scientific literature to establish research context and methodology
- Utilized ArcGIS and Google Earth Engine for spatial analysis, remote sensing, and map generation
- Implemented programming techniques for data processing, analysis, and modeling
- Executed field-based and analytical research methodologies with precision and adherence to protocols
- Strengthened academic writing skills through thesis documentation and peer-reviewed manuscript preparation

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## Standardized Test

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- **IELTS** Dec 7, 2024  
Overall score: 7  
Listening: 8, Reading: 7.5, Writing: 7, Speaking: 6
- **GRE** Sept 12, 2024  
Overall score: 307  
Verbal Reasoning: 152, Quantitative Reasoning: 155, Analytical Writing: 3.5

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## References

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- Gandhiv Kafle, Ph.D., Assoc. Prof., Agriculture and Forestry University, Faculty of Forestry, Hetauda, Nepal  
gkafle@afu.edu.np, +977-9855053929
- Jeetendra Gautam. Asst. Prof., Agriculture and Forestry University, Faculty of Forestry, Hetauda, Nepal  
jgautam@afu.edu.np, +977-9846471253