

Samala Tharakanath Reddy

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PROFESSIONAL SUMMARY

Dedicated environmental professional with expertise in wildlife conservation, forestry, and community-based research. Experienced in leveraging GIS and remote sensing technologies for ecological studies, with a strong background in conducting comprehensive biodiversity assessments and supporting sustainable agricultural practices. Committed to improving the lives of agroforest-dependent communities through participatory research and conservation efforts.

Interests: Geoinformatics | Forestry | Agroecology | Ecosystem dynamics | Ecology and Management | Agriculture

EDUCATION

Tripura University (A central University) , Agartala	2024
M.sc in Forestry & Biodiversity	
Final Grade: First Class	GPA: 8.56/10.0
Thesis Title: Habitat characteristics of Hoolock Gibbon in Trishna wildlife sanctuary, Tripura, India	
Oriental University , Indore , Madhya Pradesh.	2022
Final Grade: First class	GPA: 7.76/10.0
Specializations: Mushroom cultivation technology, Food processing technology	

SKILLS AND COMPETENCES

GIS software's: Arc GIS pro, QGIS (Multiple versions), Google earth pro, Google earth engine

Data analysis: Qualitative & Quantitative data analysis, NVIVO, R, STATA, Excel, Microsoft (Advanced)

Soft Skills: Multilingual communication (fluent in English, Hindi, Telugu), leadership, rapid technology adaptation.

Laboratory: Viability test , SOC , Soil tests (Nutrient Analysis)

Personal Strengths: interpersonal relationship skills, Leadership and Team Player, Organizational skills, Time and Project Management.

TEACHING EXPERIENCE

B.E.S.T Innovation University	Dec 2025 -Present
Faculty of Forestry, College of Agriculture science & Research	

- **Teaching & Curriculum Delivery:** Forest Ecology and Management, Geomatics (GIS & Remote Sensing), Forest Plant Biology, Wildlife Management, Biodiversity Conservation.
- **Field & Practical Training:** Vegetation analysis, wildlife survey techniques, biodiversity assessment, ecological sampling, GIS-based field applications.
- **Research & Academic Mentorship:** Student project supervision, dissertation guidance, research design, data analysis, scientific writing.
- **Academic & Institutional Roles:** Student evaluation, curriculum development, departmental responsibilities, academic outreach and extension activities

RESEARCH EXPERIENCE

Straive .	Subject Matter Expert	Mar 2025 – Sep 2025
<ul style="list-style-type: none">• Reviewed and validated Research content in Agriculture, Biological Sciences, and Environmental Science for Elsevier, ensuring data accuracy and reference validation• Delivered expert feedback on scientific content errors and trained AI systems to improve data enrichment and validation processes.		
Centre for Sustainable Agriculture (NGO)	Research Assistant	Nov 2024 - Jan 2025
<ul style="list-style-type: none">• Led qualitative data analysis using NVivo for a multi-country agricultural study, generating insights on cross-regional patterns and farmer practices.• Facilitated stakeholder engagement across Andhra Pradesh and Telangana, strengthening collaboration		

between farmers, NGOs, and policy actors.

- Authored case studies on organic production systems and sustainable farming practices to support evidence-based agroecological initiatives.
- Conducted systematic literature reviews on agroecological approaches in India, synthesizing findings to inform research and policy recommendations.

Conservation Ecology lab (Tripura Univ.)

Lead researcher

Feb 2024 - July 2024

- Led wildlife habitat mapping projects using advanced GIS and remote sensing techniques to support conservation planning.
- Conducted biodiversity assessments in protected areas, identifying **15+ endangered species** and contributing to long-term monitoring strategies.
- Collaborated with local communities to promote eco-friendly agricultural practices in buffer zones, enhancing coexistence between livelihoods and conservation

PUBLICATIONS

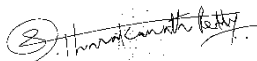
1. Habitat Characteristics and Spatial Heterogeneity of Hoolock Gibbon(*Bunopithecus hoolock*) in Trishna Wildlife sanctuary along Indo-Bangladesh Boarder
Journal: Asian Journal of Research in Agriculture and Forestry
DOI: <https://doi.org/10.9734/ajraf/2026/v12i2502>
2. Conservation agriculture in tropical cropping systems: Implications for soil health and productivity
Journal: International Journal of Biology Sciences
DOI: <https://www.doi.org/10.33545/26649926.2026.v8.i4b.802>
3. Land surface Temperature Dynamics and Heat, Vegetation Interaction in a semi-arid Region Using Machine learning and Geospatial Modelling.(**Under Preparation**)
Targeted Journal: MAUSAM (**Indian meterological Department**)

CERTIFICATIONS & TRAININGS

- **Central University:** Project Conservation Status and Habitat Characteristics of Hoolock Gibbon and Gaur in Trishna Wildlife Sanctuary, Tripura, India
- **Indian Institute of Remote Sensing (IIRS), Dehradun:** Overview of Geographical Information Systems
- **ESRI:** Web Course ArcGIS Pro Basics for advanced geospatial analysis and mapping techniques
- **Aaranyak:** Consultative Workshop on Conservation Status of Hoolock Gibbon in Northeast India, Tripura
- **National Intellectual Property Mission, Government of India:** Intellectual Property Rights and Innovation Management
- **Agro-Environmental Education & Farmers Welfare Society (AEEFWS), Punjab:** Sustainable Agricultural and Environmental Practices
- **Interdisciplinary Research and Opportunities in Science & Technology:** Advanced research methodologies and cross- disciplinary approaches
- **International Centre for Land and Water (ICLD), ILRI Netherlands:** Soil and Water Resources Management Strategies

CONFERENCE/WORKSHOP ATTENDED

- Project Conservation Status and Habitat Characteristics of Hoolock Gibbon and Gaur in Trishna Wildlife Sanctuary, Tripura, India 2024
- NCAST: National Conference on Agricultural Science and Technology 2025



Signature