

Samala Tharakanath Reddy

Permanent Address: 8-14 Katamareddypalli, Sri satyasai 515531IN

samalatharakanathreddy@gmail.com

[Website](#)

cell: +91 6302331533

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.

EDUCATION

Tripura University (A central University)

Nov 2022 - July 2024

M.sc in Forestry & Biodiversity

- Relevant coursework: Agroforestry, Climate change, Remote sensing & GIS, Biodiversity, Ecology, Bio statistics
- Master Thesis: Habitat characteristics of Hoolock Gibbon in Trishna wildlife sanctuary, Tripura, India

Oriental University, Indore, Madhya Pradesh

Oct 2018 - July 2022

B.sc (Hons.) in Agriculture

- Experimental Learnings: Mushroom cultivation technology, Food processing technology

PROFESSIONAL/ RESEARCH EXPERIENCE

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Subject Matter Expert

Mar 2025 – Sep 2025

- 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

- 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.

BCT-KVK (Krishi Vigyan Kendra)

Research Assistant

Aug 2021 - Nov 2021

- Spearheaded field studies on integrated farming and pest management, leading a team to generate actionable insights for sustainable crop practices.
- Implemented GIS-based land use analysis, optimizing resource allocation and achieving a 25% improvement in efficiency.
- Organized and facilitated workshops on sustainable agriculture, educating 200+ farmers on parthenium management and eco-friendly practices.

SKILLS

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

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