



# SREELAKSHMI PRAKASH

TECHNICAL OFFICER

## PROFILE

Accomplished research professional with over six years of experience in GIS and remote sensing. Authored comprehensive technical reports, map outputs, and data visualizations to support interdisciplinary GIS projects. Known for strong communication abilities and a deep understanding of modern teaching methodologies, effectively guiding research projects and supporting academic development. Committed to advancing knowledge in environmental science and GIS through innovative research and collaborative efforts.

## EDUCATION

- PG diploma in Disaster Management** 2023  
Indira Gandhi National Open University (IGNOU)
- Short Term Course in GIS and Remote Sensing** 2022  
School of Environmental Sciences, Mahatma Gandhi University, Kerala, India
- M.Phil. Environment Management** 2018 - 2019  
(80%, First rank) School of Environmental Sciences, Mahatma Gandhi University, Kerala, India
- M.Sc. Environment Science and Management** 2015 - 2017  
(86%, Second rank) Sree Sankara College, Kalady, Kerala, India.
- B.Sc. Chemistry** 2012 - 2015  
(76%) Sree Keralavarma College, Thrissur, Kerala, India.
- HSE Bio-maths** 2010 - 2012  
(76%) G.M.B.H.S.S Kunnankulam, Kerala, India


## WORK EXPERIENCE


- Technical Officer** DEC 2023 - PRESENT  
Dr. R. Satheesh Centre for Remote Sensing and GIS, School of Environmental Sciences, Mahatma Gandhi University, Kerala
  - Coordinate students across different GIS-related programs and provide instructions.
  - Prepare technical reports, map outputs, and charts to assist with GIS-related projects.
  - Ensure proper documentation of methods, workflows, and datasets utilized in various projects.
  - Conduct training sessions for government and institutional officials.
  - Guiding research projects and mentoring students in their dissertation work.

## CONTACT

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 07/06/1994

 Indian

## SKILLS

- Excellent research, writing and presentation skills
- Effective Communication
- Aptitude for designing and managing research projects
- Field sampling, data collection and Management
- Creating project charters and Progress reports
- Thorough familiarity with the modern teaching methods
- Capability to assist students in dissertation work

## LANGUAGES

- English
- Malayalam

## SOFTWARES

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- ArcGIS
- ArcGIS Pro
- Q GIS
- ERDAS IMAGINE
- Python
- MS Office
- Adobe Photoshop

### Technical Assistant

AUG 2022 - DEC 2023

Dr. R. Satheesh Centre for Remote Sensing and GIS, School of Environmental Sciences, Mahatma Gandhi University, Kerala

- Providing students with instruction and methodological guidance in GIS techniques.
- Providing support for the installation, configuration, and maintenance of GIS software and associated tools.
- Guiding research projects and mentoring students in their dissertation work.

### Junior Research Fellow

NOV 2020 - JUL 2022

Mahatma Gandhi University, Kerala

- DoECC funded project entitled, "Mapping the Spatial Distribution of rock quarries in Ernakulam, Idukki and Kottayam districts of Kerala"
- Created detailed distribution maps of rock quarries in target districts
- Developed and maintained a spatial database of quarry sites.
- Prepared project reports featuring maps, charts, and analysis results.

## PROJECTS UNDERTAKEN

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- **Diploma project:** Spatio - Temporal Evaluation of Ecosystem Changes over Decades in Indian Sundarabans (2022).
- **DoECC project :** Mapping the Spatial Distribution of rock quarries in Ernakulam, Idukki and Kottayam districts of Kerala (2020 - 2022)
- **M.Phil Dissertation:** Spatio-Temporal Evaluation of Landslide Susceptibility and Soil Erosion of Chalakkudy River Basin, Kerala (2019)
- **M.Sc. Dissertation:** Is remote sensing effective in estimating biomass of heterogeneous landscapes in Kerala (2017).
- **BSc group project:** Production of biodiesel from vegetable oils. (2015)

## RESEARCH PUBLICATIONS

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- Pratheesha P., Abin V., Baiju K.R., Sreelakshmi P., Aravind S., Neethu J. (2025). Geospatial assessment of shoreline dynamics in Chengalpattu district, north-eastern coast of Tamil Nadu, India. *Int. J. Disast. Studies Climate Resil.* 1(1):70-79.
- Prakash, S., Varghese, A., Amrutha, A. S., & Baiju, K. R. (2023). Assessment of ecological disturbance on indian sundarbans with special reference to amphan cyclone by using geospatial technology. *Journal of Geospatial Surveying*, 3(1).
- Amrutha, A. S., Varghese, A., Prakash, S., & Baiju, K. R. (2023). Hydrometeorological Landslides on the Windward Side of Western Ghats-A Case Study of Kootickal, Kerala, India. *Journal of Geospatial Surveying*, 3(2).
- Prakash, S., Baiju, K. R., Varghese, A., & Anish, A. U. (2022). Annual soil loss estimation in a Tropical River basin of Southern India using RUSLE model and AHP techniques. *J. Geosci. Res*, 7, 202-208.

## CONFERENCE PAPERS

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- Tsunami Vulnerability Assessment Using Multi-criteria Decision Making Analysis of South East Coast of India Using Gis-based Tools. International conference on tsunami risk reduction & resilience 2024.
- Spatio Temporal Analysis of Land Use /Land Cover of Indian Sundarbans Over Decades, *5th International Disaster, Risk and Vulnerability Conference - (DRVC 2023)*.
- *Assessment of Ecological Disturbance on Indian Sundarbans with special reference to Amphan cyclone using by Geospatial Technology, 2<sup>nd</sup> International Symposium on Geo- Informatics - (GEOSYM) 2022.*
- *Spatio-Temporal Evaluation of Landslide Susceptibility and Soil Erosion of Chalakkudy River Basin , Kerala , International Conference on Frontiers in Marine Science: Challenges and Prospects - Maricon 2019 .*
- Is remote sensing effective in estimating biomass of heterogeneous landscapes in Kerala?, *30th Kerala science Congress 2018 .*

## HANDS ON EXPERIENCE

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- Various soil, water quality and microbiological analyses
- GIS and Remote Sensing.
- Teaching experience - Vimala College, Thrissur for UG students in Disaster Management as part of the audit course.
- Data analysis using statistical tools including SPSS and MS Office

## CO-CURRICULAR ACTIVITIES

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Active participant of camps, surveys, conferences, seminars, webinars etc

- Participated in two day National Symposium on Climate Change hosted by NGO Plan@ Earth.
- Participated in one day seminar on A Scientific Analysis and Rethinking on the Recent Mega Flood of Kerala.
- Participated in GIS Day seminar conducted by GEC, Thrissur.
- Participated in Nature awareness camp held at Shola National Park.
- Participated in Nature awareness camp held at Shenthuruni Wildlife Sanctuary.
- Participated in Global Webinar series: Environment and Emergencies in the face of COVID-19 conducted by UNEP
- Participated in 4<sup>th</sup> and 5<sup>th</sup> International Disaster Risk and Vulnerability Conference organised by School of Environmental Sciences ,Mahatma Gandhi University, Kerala, India.
- Participated in 5 days webinar series on Disaster Management organised by Department of Environmental Sciences, School of Earth Science Systems, Central University of Kerala.
- Completed online course on "Basic Principles of Remote Sensing Technology" conducted by Indian Institute of Remote Sensing (IIRS), ISRO Dehradun
- Completed 3 days Course on "ArcGIS Pro: Essential Workflows" conducted by esri India.
- Completed Cardio Pulmonary Resuscitation and Trauma Care Course conducted by Dept. of Emergency Medicine, Amrita School of Medicine.

## REFERENCE

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### Dr. Shijo Joseph

Assistant Professor  
GIS & Remote Sensing Department  
Kerala University of Fisheries and  
Ocean Studies, Kochi, India.  
[shijonrsa@gmail.com](mailto:shijonrsa@gmail.com)

### Dr. K. R Baiju

Associate Professor  
School of Environmental Sciences  
M G University, Kottayam,  
Kerala, India  
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### Dr. Abin Varghese

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