First name: Athithiyan
Date of birth: 16.02.1998
Nationality: Indian
Civil status: Single
Education: Master's in petroleum refining and petrochemicals

Institution	Duration	Degree(s) or Diploma(s) obtained:
Anna university	2019-2021	Master's in petroleum refining and petrochemicals
Arunai engineering college	2015-2019	Bachelor's in chemical engineering

Language skills: Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
English	1	1	1
Tamil	1	1	1

General Professional Experience:
• Developed geospatial tools and AI-based models for predictive insights
• Expertise in land use planning and geospatial analytics for sustainable energy and infrastructure development
• Cross-sectoral project coordination at the interface of energy, environment, and land resource management
• Delivered technical reports, maps, and visualizations to clients and stakeholders
• Strong team player with excellent communication, project management, and analytical skills

Specific Professional Expertise:
• Management of interdisciplinary teams to address key climate change challenges through applied research and system-level solutions
• Strong in spatial data handling, map design, and reporting
• Hands-on knowledge of regional land use patterns, environmental constraints, and development planning
• Experience working with local datasets, administrative boundaries, and field data validation

Regional Expertise:
• 3+ years of data analysis across diverse regions with strong insight into local trends, planning, and environmental data.

Duration	Location	Company & Reference Person	Position	Description
July 2024 to ongoing	India	Auroville consulting, Martin schefler , Sukanya randhawa and Tamil Nadu State Planning Commission, Ms Sudha Ramen	Research /Data analyst	**Tamil Nadu Blue-Green Infrastructure Potential Mapping and Development Framework** **Project Summary:** This study, conducted under the guidance of the Tamil Nadu State Landuse Research Board, developed a science-based and scalable framework to identify, map, and prioritize Blue-Green Networks (BGNs) across Tamil Nadu. BGNs are interconnected natural systems—such as forests, rivers, wetlands, and farmlands—that deliver essential ecosystem services including flood regulation, carbon storage, temperature moderation, and biodiversity support. While BGN approaches have traditionally focused on urban environments, this study takes a regional-scale perspective, integrating water (blue) and land (green) systems across rural and peri-urban landscapes. The framework supports long-term ecological restoration, climate adaptation, and evidence-based land-use planning. **Methodology and Approach:** The project used over 15,000 Sentinel-2 satellite images and 40+ geospatial layers, including land use/land cover (LULC), hydrology, topography (DEM), biodiversity, and climate vulnerability indices. A digital elevation model was used to delineate micro-watersheds, enabling identification of ecological linkages across landscapes. Unused and fallow lands from 2019–2023 were mapped and assessed for forestation potential using a multi-criteria suitability model. Lands were categorized by their ability to either *enhance* existing BGNs or *expand* them by connecting adjacent ecological units. Identified BGNs were evaluated based on 18 ecosystem

Duration	Location	Company & Reference Person	Position	Description
				service criteria, including climate regulation, water provisioning, and biodiversity richness. **Deliverables:** • A geospatial database and interactive map of existing and potential BGNs across Tamil Nadu • Suitability and opportunity maps for forestation and restoration • A multi-criteria prioritization tool for ecosystem services valuation • District-wise intervention zones and BGN classification (nano to mega scale) • Policy recommendations for integrating BGNs into spatial planning, climate action, and district-level governance
August 2022-October 2023	India	Auroville consulting, Martin schefler	Data analyst	**Sustainable Energy Transformation Tamil Nadu (SET-TN)** SET-TN objective is support Tamil Nadu's transition to a sustainable energy future. The key activities undertaken include: • Policy advisory services to accelerate the adoption of renewable energy sources. • Research and data analytic services to present opportunities and pathways for a sustainable energy future in Tamil Nadu. • Capacity building and awareness creation about key barriers and enablers in the Tamil Nadu power sector to transition towards a net zero energy future. • Renewable energy program design services for grid-connected solar in agriculture and for government entities. A sample of outputs delivered are listed below: • A detailed project report on 'Land-suitability assessment of Villupuram district in TN evaluating the potential of unused/fallow lands for distributed solar energy'. https://www.aurovilleconsulting.com/land-suitability-assessment-for-distributed-solar-energy-villupuram-district/ • A report on 'Time of use Tariff' to promote clean energy in TN. https://www.aurovilleconsulting.com/modelling-time-of-use-electricity-tariffs-for-tamil-nadu/
February 2023 to December 2023		Auroville consulting, Martin schefler and Tamil Nadu State Planning Commission, Ms Sudha Ramen	Research /data analyst	**Land Suitability Assessment for Kallakurichi District** The objective of this initiative was to identify unused lands and assess their suitability for forestation initiatives, agriculture, water harvesting, housing, industrial development, and ground-mounted solar energy systems. The key activities undertaken include: • Land-use and land cover (LULC) detection. • LULC change detection. • Land suitability assessment. • Ground truthing. • Dissemination of results A sample of outputs delivered are listed below: • A detailed project report presenting insights from the study. • A detailed interactive online map showing unused lands with various levels of suitability for forestation, agriculture, water harvesting, housing, industrial development, and ground-mounted solar energy systems. • Awareness creation session with the respective departments at the state and local level.