

# Vaishak G S

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## EDUCATION

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### Mangalore University, Mangalore

MSc in Marine Geology

Karnataka, India

2021–2023

– CGPA: 7.9

### St. Aloysius College, Mangalore

BSc in Biotechnology, Chemistry, Botany

Karnataka, India

2018–2021

– CGPA: 6.7

### Kendriya Vidyalaya No.2 Kasaragod

Class 12 in Science

Kerala, India

2016–2018

– Score: 79%

## WORK EXPERIENCE

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### Zeitview(Formerley Dronebase), Bangalore

Role: Engineer 1

Karnataka, India

February 2024–Present

- Analysed **wind turbine blade** anomalies using AI based technical design data, operating experience, and engineering principles to meet customer specifications.
- Evaluated operational performance and environmental impacts of **offshore/onshore wind turbines and solar panels**, gaining insights into both technical and ecological aspects of **renewable energy systems**.
- managed large datasets, optimised workflows, and automated data pipelines for seamless transition of data from field operations to analysis teams.

## RESEARCH EXPERIENCE

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### WebGIS Application for Coral Reef Bleaching in the Indian Ocean

Masters Thesis

INCOIS Hyderabad

May 2023 - July 2023

- PI: Dr. Priya K
- Developed an **interactive WebGIS platform** using **Leaflet JS** to visualise, analyse, and share real-time coral bleaching datasets.
- Processed NetCDF datasets (SST climatology, Bleaching HotSpot, DHWs) from INCOIS to assess coral bleaching risks.
- Built a custom web interface (HTML, JavaScript, CSS) with mapping features (pan, zoom, pop-ups).
- Utilised **Apache Tomcat** and **THREDDS Data Server** for data hosting and integration of real-time satellite-derived products.

## COURSEWORK

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- **Marine Geology:** Geology, Meteorology, Climatology, Remote Sensing, Physical, Chemical, and Biological Oceanography, Geology of the Ocean Floor, as well as Computer Science fundamentals and Geographic Information System (GIS) technologies for data analysis and visualization.
- **Environmental Science:** Basics of Environmental Science, Science of Climate Change.
- **Library and Information Science:** Electronic Information resources and Services.
- **Biotechnology:** Biophysics, Biostatistics, Biochemistry, Microbiology and Immunology, Molecular Biology and Recombinant Technology, Plant Biotechnology, Animal Biotechnology, Environmental Biotechnology, Bioprocess Technology.
- **Chemistry:** Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Environmental and Industrial Chemistry, Nuclear Chemistry Nanoscience.
- **Botany:** Biodiversity, Cell Biology, Histology, Anatomy, Morphology Embryology of Angiosperms, Plant Systematics, Commercial Botany, Environmental Science, Molecular Biology, Genetics, Plant Propagation Biotechnology, Pharmacognosy.

## SKILLS

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### Computational and Programming skills:

- Languages: : JavaScript, HTML, CSS, Python, MATLAB
- Packages & Software: ArcGIS, QGIS, Google Earth

### Soft Working skills:

- Have good Communication, Writing and Presentation skills
- Excellent at working in teams
- Good at problem solving and resolutions

## EXTRACURRICULAR ACTIVITIES

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- Member of Deep-Ocean Stewardship Initiative (DOSI) 2025-Present  
*A global, interdisciplinary network that promotes sustainable management and conservation of the deep ocean. Produces science-policy briefs, guidance documents, and commentaries on international regulations. Engages in working groups on topics such as: Climate Change, Marine Genetic Resources, Offshore Energy, Deep-Sea Mining.*
- Volunteer at SAHAAYA-A Social Service Project 2018-2019  
*Volunteered in various outreach programs conducted by the St. Aloysius College, Mangalore which developed and enhanced the academic skills, leadership qualities, self-confidence, communication skills, managerial skills, and responsibilities toward the rural community*
- National Cadet Corps 2018-2021  
*Part of the National Cadet Corps (NCC), which is a youth development movement supported by the armed forces with the mission to develop character, discipline, leadership, a secular outlook, and the spirit of adventure and ideals of selfless service among young citizens.*
- Neerathon'24 2024  
*Participated in a Marathon aimed at promoting awareness about water conservation and fostering community engagement through sports and fitness activities.*