Nandhini R

📞 +91 7530086730   ✉ nandhini308308@gmail.com   in linkedin.com/in/nandhini308/

Education

College of Engineering, Guindy   **2021 - 2025**
B.E - GeoInformatics Engineering   *CGPA - 7.6*

Vailankanni Matric Higher Secondary School   **2020 - 2021**
HSC   *Percentage - 96.28%*

Vailankanni Matric Higher Secondary School   **2018 - 2019**
SSLC   *Percentage - 96%*

Courses and Certifications

- Data Structures
- C++ Programming
- Professional Development
- Algorithm Analysis

Internship

National Institute of Ocean Technology   **July 2023**
Intern   *Chennai, TamilNadu*

- Conducted **Landuse Landcover (LULC)** mapping by leveraging ARCGIS software using **LANDSAT-8 satellite images**; findings offer valuable insights into how land use patterns have evolved over time.
- Developed and fine-tuned **supervised classification techniques** that identified different land cover types, enhancing the granularity of mapping results.
- Analyzed change detection in land cover features for 2017 and 2023 using **Maximum Likelihood algorithm**, improving the accuracy of environmental monitoring reports.

Projects

GIS-Driven Route Optimization   **Dec 2024**

- Performed spatial network analysis to determine the shortest and most efficient waste collection routes, reducing total travel distance and time for collection vehicles.
- Implemented optimized GIS-based routing analysis to improve the efficiency of campus waste collection, resulting in reduced fuel consumption and lower operational costs.

Youtube Clone   **June 2024**

- Developed a fully responsive YouTube clone to replicate the UI/UX of the original platform.
- Implemented key features such as video thumbnails, search bar, and navigation menu using HTML and CSS.
- Tech Stack - HTML, CSS.

Meadow Suites API   **May 2024**

- Engineered and executed a cutting-edge, fully restful API for a luxury hotel, enabling guests to seamlessly book preferred rooms.

Technical Skills

Languages: C++, Python, JavaScript, Java
Softwares: ArcGIS, QGIS, Erdas Imagine
Technologies/Frameworks: HTML, CSS

Leadership / Extracurricular

- Led seamless coordination of logistics and marketing team of Geo-Horizon'23, to enhance event success and visibility.
- Managed logistics for Kurukshetra '23 by streamlining communication channels among 15+ vendors, ensuring seamless event execution for over 1,000 participants.
- Efficiently orchestrated Event organization in the Astro Club, which significantly enhanced participant engagement and overall event success.