

Sanjay Kumar

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🔗 Sanjay Portfolio

🔄 Sanjay-bro

🌐 Sanjay Kumar

Professional Experience

09/2024 – 10/2025
Udupi

Junior LiDAR Engineer and QGIS Data Analyst Occult Engineering Technologies

Project: LiDAR-Based Advanced Feature Classification

● **Role:** Project Team Lead & Senior LiDAR Engineer

● **Software Used:** TerraSolid Suite (TerraScan, TerraModel), MicroStation, Global Mapper, LASTools

● **Scope of Work / Responsibilities:**

○ Managed team workflows for a critical European LiDAR data project, ensuring all phases from classification to final deliverable creation met aggressive schedules.

○ Conducted advanced classification of complex LiDAR point clouds to identify and separate over 10 distinct feature classes (e.g., powerlines, vegetation, buildings).

○ Generated high-fidelity Digital Terrain Models (DTMs) and hillshades used for critical infrastructure planning and environmental analysis.

● **Key Achievements:**

○ Led team workflows for a European LiDAR project, overseeing classification through to delivery.

○ Managed the processing and delivery of classified LiDAR data for a project area exceeding 5,000 square kilometers.

○ Worked in a high-intensity project phase, with the team through a demanding schedule of 14+ hour workdays for over six weeks to ensure project success.

Project: POI (Point of Interest) Mapping and Data Collection

● **Role:** Project Team Lead & GIS Analyst

● **Software Used:** QGIS, Python, JavaScript

● **Scope of Work / Responsibilities:**

○ Interpreted high-resolution satellite imagery for precise feature extraction and spatial data validation.

○ Developed and maintained standard operating procedures to ensure efficiency and consistency in POI data collection.

○ Digitized, coded, and validated geospatial point data, ensuring it met stringent quality and accuracy standards.

● **Key Achievements:**

○ Engineered a custom image viewer application as a plugin for QGIS, a tool that was adopted team-wide and significantly improved POI coding efficiency and accuracy.

○ Exceeded project targets by 50%, delivering over 10,000+ validated Points of Interest while maintaining a data accuracy rate of over 98%.

Education

2018
Udupi

SSLC
Anantheshwara English Medium School
80%

2020
Udupi

Pre-University
Govt PU College Udupi
58%

2023
Udupi

Bachelor of Computer Applications
Milagres College Kallianpur
CGPA: 6.0

Technical Skills

- HTML
 - JavaScript
 - Python
 - SQL
 - Excel
 - Global Mapper
 - QGIS
- CSS
 - TailwindCSS
 - Django
 - ReactJS
 - MicroStation
 - TerraSolid


Certificates

Python Full-Stack Developer
PySpiders, bangalore 2024

ReactJS
PySpiders, bangalore 2024


Web Tech Projects

- 2026

TaskFlow – Task Management System 


React, Gemini API

● Built a full-stack task management system using NestJS, Prisma, and Next.js with role-based access control, modular backend architecture, REST APIs, and a Tailwind-powered modern dashboard.
- 2025

Portfolio Website 

React, Tailwind CSS

● Built a dynamic and visually appealing personal portfolio to showcase projects and skills, emphasizing modern UI/UX principles and responsive design.
- 2024

Weather Forecasting App 

React, Tailwind CSS, Bootstrap

● Created a responsive, real-time weather forecasting application that fetches data from a third-party API based on user location, providing accurate and up-to-date weather information.
- 2023

Movie Streaming Website

PHP, SQL, Bootstrap, JavaScript

● Developed a full-stack movie streaming site as an academic project, implementing user validation and data insertion with PHP and managing the database with SQL.

Personal Details

Date of Birth: 11-02-2002
Nationality : Indian
Marital Status: Single
Religion: Hindu

Languages

English
Kannada
Tamil
Hindi

Declaration

I hereby declare that all the information provided above is true and accurate to the best of my knowledge, belief, and understanding.