

Sanjay Kumar

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 Sanjay-bro

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 Sanjay Portfolio

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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 <i>Anantheshwara English Medium School</i> 80%
2020 Udupi	Pre-University <i>Govt PU College Udupi</i> 58%
2023 Udupi	Bachelor of Computer Applications <i>Milagres College Kallianpur</i> 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 ↗ <i>React, Gemini API</i> ● 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 ↗ <i>React, Tailwind CSS</i> ● 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 ↗ <i>React, Tailwind CSS, Bootstrap</i> ● 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 <i>PHP, SQL, Bootstrap, JavaScript</i> ● 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.