

YASHAS RAMESH

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PROFESSIONAL SUMMARY

GIS & Geospatial Engineer with 2.5+ years of experience in UAV photogrammetry, LiDAR analytics, spatial data validation, and geospatial automation. Proven ability to process large drone, satellite, and point-cloud datasets to deliver actionable insights for infrastructure, mining, and renewable energy projects. Experienced with ArcGIS Pro, QGIS, Google Earth Engine, and Python geospatial libraries (GeoPandas, GDAL, Rasterio). Strong understanding of coordinate systems, geodetic datums, and geospatial accuracy standards used in engineering and mapping environments.

GATE 2023 AIR 103 – Geomatics Engineering.

CORE SKILLS

Geospatial Analysis: Spatial Analytics, Terrain Modelling, Raster & Vector Processing, Spatial QA/QC, Topology Validation

Drone & LiDAR Processing: UAV Photogrammetry, Point Cloud Classification, DSM/DTM Generation, Orthomosaic Production

GIS Software: ArcGIS Pro, QGIS, ArcGIS Online, ERDAS Imagine, Global Mapper, ArcScene

Remote Sensing: Google Earth Engine, SNAP, SeaDAS, Satellite Data Processing

Programming: Python (GeoPandas, GDAL, Rasterio, OpenCV), SQL

Mapping & Engineering: Civil3D, Georeferencing, Cadastral Digitization

PROFESSIONAL EXPERIENCE

GIS Analyst | Skylark Drones | Bengaluru | Sep 2024 – Present

- Process UAV and LiDAR datasets including point-cloud classification, noise filtering, DSM/DTM generation, and terrain modelling for infrastructure and mining projects.
- Perform solar panel defect detection using high-resolution drone imagery and spatial analytics workflows.
- Automate geospatial workflows using QGIS Model Builder and Python to streamline reprojection, spatial indexing, geometry extraction, and reporting.
- Support Railway KAVACH geospatial analysis including track alignment validation, spatial referencing, and GIS dataset preparation.
- Perform spatial QA/QC, coordinate transformation, attribute validation, and geodatabase management for MCDR compliance.
- Deliver client-ready GIS datasets, map products, and spatial reports for stakeholders.

GIS Intern | Skylark Drones | Bengaluru | Mar 2024 – Sep 2024

- Conducted rooftop solar suitability analysis using slope, aspect, shadow modelling, and proximity parameters.
- Supported drone imagery preprocessing, orthomosaic generation, and DEM production.
- Performed solar defect detection analysis using geospatial data processing techniques.

Project Associate | Karnataka State Remote Sensing Applications Centre | Aug 2023 – Feb 2024

- Worked on Karnataka Revenue HISSA Boundary Updation Project using cadastral digitization and georeferencing.
- Performed spatial validation, topology checks, and boundary corrections for land records datasets.

KEY PROJECTS

- Forest Fire Risk Zonation – Developed MCDA-based forest fire susceptibility maps integrating terrain and satellite datasets using Google Earth Engine, QGIS, and ArcGIS Pro.
- Potential Fishing Zone Mapping – Processed SST and ocean color datasets to generate PFZ maps using SeaDAS and SNAP.

EDUCATION

M.Tech – Geoinformatics | Karnataka State Remote Sensing Applications Centre | CGPA: 9.23

B.E – Civil Engineering | Dayananda Sagar College of Engineering | CGPA: 8.18

ACHIEVEMENTS & CERTIFICATIONS

- GATE 2023 – Geomatics Engineering – AIR 103
- ESRI MOOC – Going Places with Spatial Analysis

LANGUAGES

English – Professional Proficiency | Kannada – Native