

# Prakash Joshi

Geomatics Engineer | GIS & Remote Sensing | Spatial Data Analyst

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## Professional Summary

Innovative Geomatics Engineer with hands-on experience in UAV-based remote sensing, spatial databases, and GIS development. Skilled in processing multispectral imagery, automating geospatial workflows, and developing full-stack spatial solutions. Passionate about using data and maps to inform decisions in agriculture, urban planning, and sustainable development.

## Technical Skills

- Programming: Python, JavaScript, C++, Java, HTML/CSS
- GIS & RS Tools: QGIS, ArcGIS, Pix4D, Google Earth Engine, AutoCAD
- Surveying: Total Station, GPS, Theodolite, UAV (RTK, multispectral)
- Databases: PostgreSQL, PostGIS, PgRouting
- Soft Skills: Research, Presentation, Leadership, Communication

## Project Experience

- NDVI-Based Yield Estimation: Used UAV multispectral imagery and machine learning (Random Forest) to estimate paddy yield and map crop health trends across multiple growth phases.
- Urban Heat Island Mapping: Mapped LST anomalies and sprawl growth using Landsat in Google Earth Engine.
- Route Finder using Spatial DBMS: Developed shortest path algorithms in PostGIS, visualized in QGIS.
- AHP-based Land Suitability: Used weighted overlay analysis in QGIS for agricultural zone selection.

## Education

Bachelor of Geomatics Engineering, Kathmandu University - 2021 to Present

+2 Science, KIST College - GPA: 3.82/4

Secondary Education, Shree Mahendranagar Secondary School - GPA: 3.6/4

## Certifications & Honors

- HTML, CSS, and JavaScript Certified (Frontend Dev Course)
- Topper at high school and +2 level
- Recipient of multiple academic scholarships and awards