



# GANESH SAUD

GEOMATICS ENGINEERING STUDENT

## CONTACT

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## SOFT SKILLS

- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

## TECH SKILLS

- Python
- Java
- C++
- JAVA SCRIPT
- C Programming
- CSS
- GIS
- HTML

## LANGUAGES

- English (Good)
- Nepali (Fluent)
- Hindi (Good)



## PROFILE

I am Ganesh Saud, a 4th year Geomatics Engineering student at Kathmandu University. I'm passionate about GIS, remote sensing, and sustainable development. I apply spatial analysis and decision-making tools like AHP to real-world challenges. My projects focus on environmental monitoring, mapping, and smart geospatial solutions.



## EDUCATION

**Bachelor of Geomatics Engineering** 2021--Present  
School of Engineering | Kathmandu University  
Dhulikhel, Kavre

**Herald International College** 2018 - 2020  
+2 Education  
Basundhara, Kathmandu



## PROJECTS

### Topographic Map Preparation

This project focused on creating a fourth-order topographic map of the Kritipur area with verified field accuracy. Using Pix4Dmapper and ArcGIS, it produced contour lines, an orthomosaic image, a Digital Terrain Model (DTM), and a Digital Surface Model (DSM). The results support detailed terrain analysis and mapping precision.

### Monitoring Air Pollution Variations

From June 2022 to June 2024, air quality monitoring in Bhaktapur revealed seasonal peaks in PM2.5 and PM10, especially during winter. GIS-based analysis identified pollution hotspots influenced by local emissions and topography. The study emphasizes urgent health risks and the need for improved air quality management strategies.



## ACHIEVEMENTS

Proficient in programming languages including Python, Java, C++, JavaScript, and C, with hands-on experience in academic and personal projects.

Skilled in web development using HTML, CSS, and JavaScript to build responsive and user-friendly interfaces.

Experienced with GIS tools and spatial data analysis, integrating geospatial technology into real-world solutions.