Amit Bhunia

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Objective:

I am a Remote Sensing and GIS specialist with expertise in geospatial technologies, including ArcGIS Pro, QGIS, ERDAS Imagine, ENVI, and multispectral and hyperspectral data analysis. My primary interests lie in SAR remote sensing and drone image processing, focusing on high-resolution mapping and advanced geospatial applications. I am dedicated to leveraging innovative approaches to solve complex challenges in environmental monitoring, urban planning, and resource management.

Work Experiences:

Haryana Space Application Center (HARSAC) **Dec 2024 – Present**

Project Fellow

- Remote Sensing & GIS Analysis: Conduct spatial data analysis using GIS tools like ArcGIS Pro and SNAP for various applications.
- Satellite Image Processing: Process and analyze satellite imagery, including hyperspectral and SAR data, for research and project development.

NeoGeoInfo Technologies Pvt Ltd **Sept 2024 – Dec 2024**

Junior GIS Engineer

- Contributed to the design and implementation of GIS solutions, conducting spatial analysis and generating **over 50 high-accuracy maps** to support **client projects**.
- Managed and maintained geospatial databases using **ArcGIS, and AutoCAD and Global Mapper**, ensuring **99% data accuracy** and reducing processing time.
- Resolving **90% of technical GIS issues** and providing timely support to improve project efficiency.

Education:

M.Sc. in Remote Sensing & GIS **2022-2024**
Vidyasagar University - West Bengal, Midnapore
CGPA – 9.02

B.Sc. in Geography **2019-2024**
Khejuri college – West Bengal, Purba Medinipur
CGPA – 9.07

Projects:

Monitoring Land subsidence in Kolkata district using High resolution sentinel 1 SAR data

- SAR-Based Land Subsidence Analysis: Analyzed Sentinel-1 SAR data using interferometric techniques to monitor ground displacement trends in Kolkata district.
- High-Resolution Deformation Mapping: Detected subsidence patterns with millimeter-level precision, aiding urban planning and infrastructure stability assessment.

Analysis of Landside Susceptibility Zone of West and South Sikkim Using AHP (Analytical Hierarchy Process) and Geospatial Techniques

- Applied AHP (Analytical Hierarchy Process) and geospatial techniques to assess landslide susceptibility in West and South Sikkim.
- Generated landslide risk maps and provided recommendations for disaster management and land-use planning.

Skills

Remote Sensing & GIS Software: ArcMap || ArcGIS Pro || Google Earth Engine || ERDAS Imagine || ENVI || SNAP || Google Earth Pro|| AutoCAD

Programming & Data Analysis: Python || R || HTML || CSS

Language

Bengali (native) || Hindi || English