Moslem Miah

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PROFESSIONAL SUMMARY:

Motivated and detail-oriented Remote Sensing and GIS professional with hands-on experience in satellite data processing, spatial analysis, and geospatial modeling. Skilled in integrating geospatial technologies with machine learning techniques to support environmental decision-making and disaster risk assessment. Eager to contribute to innovative geospatial projects and continuously grow technical expertise.

Professional Experience:

GIS Engineer | NeoGeoInfo Technologies Ltd. | Oct 2024 – Present (Full time)

- Manage and update enterprise GIS databases, ensuring data accuracy, consistency, and spatial integrity.
- Execute geospatial analysis and cartographic production to deliver actionable insights for client projects.
- Automate repetitive geoprocessing workflows using Python and ArcPy, enhancing project efficiency.
- Collaborate with cross-functional teams to integrate GIS solutions into broader project frameworks.
- Provide in-house technical training and support to improve GIS proficiency among team members.

ITES Executive | iMerit Technologies, Kolkata | Sep 2024 - Oct 2024

- Processed high-resolution Lidar datasets for 3D feature extraction and classification.
- Performed 2D & 3D annotation and semantic segmentation for AI model training.

Academic Project:
1. Prediction of Flash Flood Susceptibility Zone using Machine Learning and Advanced Geospatial Techniques in parts of Teesta Basin, India.
    - Applied machine learning (Random Forest, SVM) using Python for flash flood zoning.
    - Leveraged Google Earth Engine for SAR data processing and large-scale raster analysis.
    - Created dynamic susceptibility maps and technical documentation.
2. Analysis of Landslide Susceptibility Zone of West and South Sikkim using Analytical Hierarchy Process and Geo-spatial Techniques.

- Utilized Analytical Hierarchy Process (AHP) for multicriteria risk modeling.
- Integrated geological, slope, land use, and rainfall data using GIS techniques.
- Produced detailed hazard maps to assist in regional planning

Education:

- Master of Science in Remote Sensing and GIS (2022-2024) at Vidyasagar University – Midnapore, India
  CGPA: 9.33
- Bachelor of Arts in Geography (2019-2022) at Sitalkuchi College, Cooch Behar Panchanan Barma University – Cooch Behar, India
  CGPA: 9.31

Technical Skills:

Geospatial Tools: ArcGIS (Automation), QGIS, ERDAS Imagine, ENVI, SNAP, AutoCAD, Climate Engine

Techniques: Lidar & SAR Processing, Image Classification, Spatial Modeling, Hyperspectral data processing, Advanced Digitization

Programming: Python, R, JavaScript, HTML, CSS

Other: Git & GitHub, DBMS, Microsoft Office, Communication, Teamwork

Certification:

- Spatial Data Science: The New Frontier in Analytics – MOOC (2025)
  6-week course completed on October 26, 2025
- Data Analysis with Python - freeCodeCamp (2025)
- Master HTML & CSS by Projects - Udemy (2024)
- Crash Course on Python - Google, Coursera (2023)
- Intro to Programming - Kaggle Learn
- Coordinate Systems & Spatial Representation - GEO University (2023)
- Diploma in Computer Applications - EYVTI (2019)

Language:

English | Hindi | Bengali (Native Proficiency)

Interests:

Geospatial Research | Tech Blogging | Teaching | Music | Travel