Ashish Mahaur

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*GIS Intern at City of St Peters. Awarded graduate certificate in Geoinformatics for advanced mapping and GIS analysis. Seeking **full-time position (Starting January 2025 - OPT EAD)***

PROFESSIONAL EXPERIENCE

GIS Intern, City of St. Peters, Missouri   May 2024 - Present
- Support IT Department for Apps development for various municipal departments using ArcGIS Enterprise
- Training ArcGIS Pro to GIS users of various departments
- Maintaining and analyzing existing databases for updates and quality assurance

Graduate Research Assistant, Remote Sensing and GIS lab, Michigan Tech   Sept 2023 - April 2024

EDUCATION

Michigan Technological University, Houghton, Michigan   Aug 2023 - Expected Dec 2024
MS, Integrated Geospatial Technology, GPA 3.89 / 4.0

University of Delhi (DU), Delhi, India   Jul 2013 - Jul 2018
BSc + MSc, Geology, Percentage: 70% and 66% (First Division)

CERTIFICATIONS

***Geoinformatics**, Graduate Certificate* – Michigan Technological University   April 2024
- Geodatabase design, Change detection, Land classification, Least Cost Path Analysis (LCPA)
- Workflow ModelBuilder, GIS project budget management, Web mapping and ArcGIS Online, Data QA/QC

PROJECT EXPERIENCE

Training ML Algorithms for NASA GEDI (Geospatial Master's Thesis)   Sept 2023 – Expected Dec 2024
- Constructed sample plots in shapefile format using ArcGIS Pro and ArcPy package
- Compiled and processed terabytes of LiDAR datasets (NSF NEON and NASA GEDI) using Python packages in Conda environment such as Rasterio, GeoPandas, NumPy, and GDAL
- Investigated performance of Machine Learning models with the Scikit-Learn package.
- Investigated performance of Deep Learning models using PyTorch package.

3D model of MTU Clock Tower   Sept 2023 – Dec 2023
- Scanned using FARO Focus 3D LiDAR scanner, constructed a 3D model using CloudCompare

SPECIALIZED SKILLS

Softwares: ArcGIS Pro, ArcGIS Enterprise, QGIS, ERDAS Imagine, Trimble Business Center, CloudCompare
Programming: Python, R, MATLAB, Julia, JAVA, SQL, HTML, CSS

LEADERSHIP & INVOLVEMENT

Student Assistant, Esri Developer Summit 2024 - Palm Springs, CA   Mar 2024
- Work with Esri team to assist in monitoring technical and demo sessions, registrations and conference
- Attended technical sessions on GeoAI, Geospatial Deep Learning, ArcGIS Enterprise and Python for GIS

RESEARCH PUBLICATION

- Mahaur, A., Liu, T. *"Forest Aboveground Biomass Estimation Using Deep Learning: Insights from NEON Ground-Truth Data and Simulated GEDI Waveforms."* (Manuscript in preparation)   Expected June 2024

STUDENT MEMBERSHIP

- American Society for Photogrammetry and Remote Sensing (ASPRS)   Oct 2023 – Present
- Michigan Society of Professional Surveyors (MSPS)   Nov 2023 – Present