

# Ashish Mahaur

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Worked as GIS Intern at City of St Peters. Awarded graduate certificate in Geoinformatics for advanced mapping and GIS analysis. Seeking **full-time position (Start date January 13, 2025 - OPT EAD)**

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## **PROFESSIONAL EXPERIENCE**

**GIS Intern**, City of St. Peters, Missouri May 2024 - Aug 2024

- Worked with various municipal departments for developing web apps on ArcGIS Enterprise and AGOL
- Supported IT Department for transition from ArcMap to ArcGIS Pro by training GIS users
- Assisted in upgrading Enterprise server for performance upgrade and fix infrastructure bottlenecks

**Graduate Research Assistant**, Remote Sensing and GIS lab, Michigan Tech Sept 2023 - Present

## **EDUCATION**

**Michigan Technological University**, Houghton, Michigan Aug 2023 - Expected Dec 2024

MS, Integrated Geospatial Technology, GPA 3.9 / 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 Aug 2023 - Apr 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
- Implemented ML and Deep learning models using Scikit-Learn, PyTorch packages.

**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 Server, ArcGIS Online, ArcGIS Enterprise, MS SQL Server, Survey123, FieldMaps, QuickCapture, Experience Builder, Dashboard, StoryMaps, QGIS, ERDAS Imagine, Trimble Business Center

**Programming:** Python, R, Arcade, MATLAB, Julia, JAVA, SQL, HTML, CSS

## **LEADERSHIP & AWARDS**

**IMAGIN 2024 Graduate Scholarship** - Michigan Apr 2024

- In recognition of outstanding student scholarship in Geographic Information / Geospatial Sciences

**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." (Preprint stage) Expected Feb 2024