

Ankila Kumari

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SKILLS

GIS Tools: ArcGIS Pro, ArcMap, ArcGIS Online, Remote Sensing, GEE, Python for GIS (e.g., ArcPy, Pandas, Geopandas), Spatial Analysis, Geospatial Data Management, Java, SQL, HTML, JS, Team Collaboration, Technical Documentation, Quick Learner, Adaptable

EXPERIENCE

OCTOBER 2025

Presenter & Competitor | MN LIS/GIS 2025 Conference, Duluth, MN

- Developed a GIS application focused on tracking and managing invasive species in Minnesota, leveraging experience in GIS and app building.
- Presented the app to conference attendees, explaining its features and potential impact on environmental management.
- Competed in the GIS app competition, showcasing technical skills and problem-solving abilities.

JUNE 2025- PRESENT

Graduate Research Assistant - U-Spatial, Minneapolis, Minnesota

- Conduct research for an Esri Press book on how universities are integrating geospatial tools across disciplines.
- Curate global case studies and StoryMaps that highlight GIS use in non-traditional fields like English, Chemistry, Public Health, and Community Engagement.
- Collaborating with faculty, librarians, and Esri experts to document best practices in spatial literacy, teaching, research, and campus operations.
- Building a framework for a “Geo-Community” model to help institutions embed spatial thinking across academic and operational systems.

JUNE 2024 – SEP. 2024

Visiting Scientist – University of Nebraska-Lincoln, Lincoln, Nebraska

- Assisted in the analysis of field data in agricultural research using Google Earth Engine (GEE) and OpenET.

SEPTEMBER 2018 – DECEMBER 2021

Associate GIS Specialist – Cyient Pvt. Ltd., Noida, India

- Created maps and visualizations for transportation planning, managed spatial data, and performed geospatial analysis
- Collaborated with developers to test and improve GIS tools and functionality

LEADERSHIP

- Esri Young Professionals Network, Member · Jun 2025 - Present
- Vice President, Geographic Information Science Student Organization (GISSO), University of Minnesota – Summer 2025 - Present; Member – Spring 2025
- VP of Events and Operations — Hindu Yuva at UMN, Spring 2025 - Present

AWARDS

- Student Assistant – Esri User Conference 2025
- Employee of the Month — Cyient Pvt. Ltd., 2018
- Star Performer of the Month — Cyient Pvt. Ltd., 2019
- Idea Champ Award — Cyient Pvt. Ltd., 2019

EDUCATION

University of Minnesota-Twin Cities — MGIS, Minor- Computer Science
Minnesota, USA — Spring 2025 – Fall 2026

IEC College of Engineering and Technology — B.Tech, Automobile Engineering
Greater Noida, India — Fall 2013 – Spring 2017

PROJECTS

Emergency Response Route Planning

- Created an interactive web map to optimize emergency response routes by integrating real-time infrastructure and traffic data, supporting urban disaster preparedness.

NYC Traffic Accident Analysis – Geospatial Risk Assessment

- Analyzed 3,000+ NYC accident records using spatial clustering and interactive maps to identify high-risk zones and improve public safety recommendations.

Spatial Analysis of Minnesota Block Groups Using GeoDa

- Used spatial regression and LISA clustering in GeoDa to analyze land vs. water distribution in Minnesota block groups, revealing significant geographic patterns.

Mapping Public Libraries with NDVI

- Developed a GIS tool linking public library locations with NDVI environmental data using Google Earth Engine to support green space planning and library access insights.