Ar. Neha Sharma
GeoAI, Remote Sensing & GIS Aficionado!

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Experience

ESRI Inc. R&D Center, New Delhi   **Feb'23 - Present**
Product Engineer II - Geospatial Data Science

Group of L&T Comapnies (Chennai)
Software Engineer - Geospatial   **Nov'22 - Feb'23**
GeoAI (GIT), LTIMindtree
Software Engineer - Geospatial   **Jul'21 - Nov'22**
GeoAI (GIT), Mindtree
Post Graduate Engineering Trainee (PGET)   **Oct'20 - Jun'21**
GeoAI (GIT), L&T-NxT

CRDF, CEPT University, Ahmedabad   **Jan'20 - May'20**
Research Assistant (Intern)
Project - Urban Air Quality Analysis of Ahmedabad using Remote Sensing and GIS (SAC-ISRO Project)

Some Major Projects

Geo Object Detection
Detecting objects in drone videos using deep learning and **finding their geolocation** using GIS photogrammetry techniques. Development of web-based GUI for model deployment and visualization on map using Flask.

Multimodal Multitasking Building Detection and Height Estimation Using High Resolution Satellite Imagery
Customized deep learning model to perform multiple tasks at one time.

Deep Learning Based Land Use Landcover Classification
Fine-tuned a UNET model using Tensorflow for automated land use land cover classification using high-resolution RGB imagery.

Acheivements

- Secured a prize in **ServiceNow Platform Hackathon** organized by Mindtree in July 2022.
- Awarded Shri Babubhai Patel – **GICEA Gold Medal** by Gujarat Institute of Civil Engineers and Architects (GICEA) on 23rd April 2022.
- Won the 'Game Changer Team Award' in Mindtree-NxT Hackathon organized by Mindtree NxT in December 2021.
- Awarded 'Academic Excellence Award', 'Best Capstone Project Award', and 'Distinguished Student Award' 2021 for outstanding performance in M.Tech, CEPT University in Jan 2021.
- Awarded 'Best Studio Portfolio 2018' by CEPT University.
- Awarded 'Merit Scholarship' in CEPT University for securing 2nd rank in the CEPT PG Entrance Exam in May 2018.
- Awarded as the 'Best Student of the Year - 2012 (Mathematics)' in Carmel Convent School, Gwalior.

National Exams Qualified

- **GATE (Geomatics) 2022** - AIR 171
- **IIRS, ISRO National JRF Eligibility Test (JET) 2020** - Remote Sensing and GIS
- **CEPT PG Entrance Exam** - AIR 2
- **JEE Mains** - Paper 1 & 2, 2012 & 2013

Education

Masters in Data Science (Distinction) (Deep Learning)   **2021-2023**
Masters - Liverpool John Moores University, England
PG Diploma - IIIT Bangalore & UpGrad

M.Tech in Geomatics   **2018-2020**
CEPT University, Ahmedabad
(Gold Medalist, Best Thesis & Distinguished Student)

Bachelor in Architecture (B.Arch)   **2013-2018**
National Institute of Technology (NIT), Bhopal

12th - Physics, Chemistry, Math   **2011-2012**
Carmel Convent School, Gwalior, CBSE Board

10th   **2009-2010**
Carmel Convent School, Gwalior, CBSE Board

Technical Skills

Remote Sensing, GIS, ArcGIS API for Python, Python Flask, Deep Learning, Machine Learning, Computer Vision, Spatial Data Science, HTML

Software/Tools

ESRI ArcGIS Pro, ArcGIS Online, QGIS, ENVI, SNAP, Erdas Imagine, Google Earth Engine, Microsoft Office, AutoCAD, Revit, Google Sketchup, Adobe Photoshop, Lumion

Certifications

Certificate Programme in Gen AI   **August 2025**
Indian Institute of Technology, Delhi

Google Project Management Certificate   **Feb 2025**
Coursera

AZ 900 - Azure Fundamentals   **April 2022**
Microsoft

Volunteering & Extra Activities

- National GAP Workshop as SME with Council of Architecture, TRC, Bhopal - 2020, 2021, 2022.
- Program Ambassador, CEPT University - 2020
- Session Manager in IEEE - IGRASS 2020

Publications

- Co-edited book - Smart Buildings and Cities with Remote Sensing and GIS, published by T&F in 2025.
- Book chapter titled "GIS-Based Air Quality Index Model for Indian Cities" in Scopus indexed EAI book series under the title, "Challenges and Solutions for Sustainable Smart City Development" in 2021.
- Paper titled 'Dramatic & Conspicuous Impact of National Lockdown 2020 on Air Pollution Levels of Ahmedabad District' in ISRO ISRSNS - Dec'20.