

Abhishek Rawat

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Personal Profile

Greetings! As a passionate urban planner and tech enthusiast, I am thrilled to introduce myself as a candidate with a unique set of skills and experiences. Armed with a Bachelor's degree in Urban Planning and a thirst for knowledge, I am currently pursuing a degree in Geo-informatics to stay ahead of the curve and explore new possibilities. My background in urban planning has given me a deep understanding of the challenges facing our cities and communities, as well as the tools to address them - from land-use planning and transportation analysis to community engagement and stakeholder collaboration. Meanwhile, my studies in Geo-informatics have opened up a whole new world of possibilities, allowing me to use cutting-edge technologies like GIS, remote sensing, and spatial data analysis to solve complex geospatial problems. With a creative mindset, a data-driven approach, and a collaborative spirit, I am eager to apply my skills and experience to create innovative and sustainable solutions for urban environments. So, let's join forces and make our cities smarter, greener, and more livable - one map at a time!

Education

Indian Institute of Remote Sensing & University of Twente

M.Sc. in Geo-informatics)

IIRS-ITC (JEP)

Aug 2021 - Aug 2023

- **Current CGPA:** 7.69/10.0
- **Thesis Project:** Deep Learning for Built-up Fractional mapping using Satellite Multi-spectral Images

Amity University

Bachelor's in Urban and Regional Planning

Noida, UP, India

Jun 2017 - Jun 2021

- **CGPA:** 8.76/10.0
- **Capstone Project:** Urban Morphology and Planning Strategies: Study of Indian Cities

Arwachin International School

Higher Secondary School Degree (Non-Medical) CBSE Board

Delhi, India

Mar 2015 - Apr 2017

- **CGPA:** 7.68/10.0

Project and Research experience

GCLA Project

Indian Institute of Remote Sensing

Dehradun, Uttarakhand, India

Jul 2022 - Aug 2022

- Topic: UHI and Impact on Energy Sector: Case Study of Kolkata Metropolitan Area
- Generated Decadal LULC and LST rasters for Kolkata Metropolitan Area using Google Earth Engine.
- Analysed correlation and regression of Land Surface Temperature with Annual Energy Consumption in whole metropolitan area.
- Discovered Local actions for the problem and their impact economically on the Energy Sector of the area.
- **Technical Skills:** Excel & Python with NumPy, Matplotlib, Pandas, QGIS, Google Earth Engine.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

H3 Uber Analysis Project

Indian Institute of Remote Sensing

Dehradun, Uttarakhand, India

May 2022 - Jun 2022

- Topic: Assessment of Internet Access to Schools (Post-Covid)
- Used H3 Geo-spatial tool developed by Uber for assessment of Internet Access to Schools in Uttarakhand.
- Developed python code to call data from "school.gov.in" portal and Network Tower location from "opencellid.org".
- Developed a Web portal to visualise the overlaid layers pan Uttarakhand.
- **Technical Skills:** MS Excel, PyQGIS, Python with NumPy, Matplotlib, Pandas, HTML, CSS & Javascript
- **Soft Skills:** Presentation skills, Teamwork, Time Management, Communication.

Summer Project-1

Amity University

Noida, U.P., India

May 2019 - Jul 2019

- Topic: Traffic Studies at Identified Stretches: NOIDA, U.P.
- Worked closely with Noida Police, Development Authority and Amity Civil Department.
- Applied Transportation Planning tools and techniques pan Noida.
- Created a GIS centric model to manage and visualise Traffic flow.
- On-site survey for TVC calculation and structural dimensions.
- **Technical Skills:** MS Excel, QGIS, AutoCAD, SketchUp
- **Soft Skills:** Presentation skills, Teamwork, Time Management, Communication.

Skills

Programming Languages/Tools	Python, C++, Javascript, LATEX, R, Three.js, p5.js
Cartography/Digital Drafting/3D Modelling	ArcGIS, QGIS, AutoCAD, SketchUp, Lumion, Rhino, Google Earth Engine
Presentations	Adobe Photoshop & Illustrator, MS Office
Soft Skills	Time Management, Teamwork, Problem-solving, Documentation.

Achievements

2023	2nd place - Winner (Student Category) , 2023 GISCI Map Contest	Columbia
2023	Winner , IIT Bombay FOSSEE Mapathon 2023 (Edition III)	India

Professional Courses & Certificates

May 2023	Transform AEC Projects with GIS and BIM (MOOC) , See credentials	ESRI
Apr 2023	Biodiversity Applications for Airborne Imaging Systems , See credentials	NASA-ARSET
Jan 2023	Connecting Citizen Science with Remote Sensing , See credentials	NASA-ARSET
Jan 2023	Disaster Assessment Using Synthetic Aperture Radar , See credentials	NASA-ARSET
Nov 2022	Satellite Remote Sensing for Measuring Urban Heat Islands and Constructing Heat Vulnerability Indices , See credentials	NASA-ARSET
Feb 2022	Do-It-Yourself Geo Apps (MOOC) , See credentials	ESRI
Jan 2022	Basic of RS GIS & GNSS , See credentials	IIRS, ISRO
Jan 2022	Programming for Everybody (Python Data Structures) , See credentials	Coursera
Dec 2021	Spatial Data Science: The New Frontier in Analytics (MOOC) , See credentials	ESRI
Nov 2021	Programming for Everybody (Getting Started with Python) , See credentials	Coursera
Oct 2021	Going Places with Spatial Analysis (MOOC) , See credentials	ESRI
Sept 2021	Imagery in Action (MOOC) , See credentials	ESRI
Jul 2021	Core Spatial Data Analysis: Introductory GIS with R and QGIS , See credentials	Udemy
Jul 2021	SAR Application for flood hazard mapping and monitoring , See credentials	IIRS, ISRO
Jul 2021	Specialized module on Cities and Climate Change , See credentials	UNITAR
Jun 2021	Introduction to GIS Mapping , See credentials	Coursera
Jun 2021	UN CC: Learn E-course "Climate change from learning to action" , See credentials	UNITAR
Jun 2021	Web GIS development course , See credentials	Udemy
Aug 2020	21 days Online GIS Training Program using QGIS , See credentials	CUK, Karnataka
Dec 2018	Road Safety Audits and Road Safety Awareness , See credentials	VNIT, Nagpur

Interests

Video Games	I always had the gaming gene. I mostly play on my PC. Lately, I also started in game development.
Sketching	I sometimes love to sit and sketch in my free time.

Languages

English	Professional proficiency
Hindi	Native proficiency
Japanese	Elementary proficiency