Abhishek Rawat

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EDUCATION

UNIVERSITY OF TWENTE

M.Sc. Geo-informatics
Aug 2023
Netherlands, EU
Geoinformation Science and Earth Observation
CGPA: 7.63/10

AMITY UNIVERSITY

Bachelors in Urban and Regional Planning
Noida, U.P, IN
CGPA: 8.76/10

COURSEWORK

SOFTWARE

BIM and AutoCAD Tools
GIS Web Development
(Javascript & Python 3)
ESRI Products
Open-Source GIS tools

SKILLS

PROGRAMMING

Experienced:
Python • HTML/CSS/JavaScript • LLMs • GeoAI
Familiar:
C++ • R • MySQL •

TOOLS/APPLICATIONS

Visual Studio • ArcGIS • Qgis • RStudio • ENVI • Google Earth Engine

OPERATING SYSTEMS

Windows • MacOS

LINKS

Github: github.com/AiM0-create
Portfolio Website: Portfolio AR
LinkedIn: abhishek-rawat-9795a914a

EXPERIENCE

IFFCO-TOKIO GIC PVT. LTD. | Senior Executive

Nov. 2023 – Aug. 2025 | Gurugram, HR, IN
- Using Semi-physical and Machine Learning models to calculate current yields and regular weather and calamity assessment using Google Weather API, IMD Gridded data python pipeline, and NASA dry data assessment.
- Supported geospatial analysis for crop insurance programs, prepared datasets, dashboards, automated parts of payout/claims assessment using Python, reduced manual effort by 2 hrs/day.

FOSSEE GIS SUMMER FELLOW-IIT BOMBAY | Intern

Oct. 2023 – Mar. 2024 | Delhi, IN
- Contributed to open GIS learning resources, developed image super-resolution project using Google Earth Engine, Python and Keras for Deep Learning.

SOCAIL MEDIA COORDINATOR-NOSPLAN(PART-TIME) | Student Body Elected Member

Dec. 2018 – Dec. 2019 | Noida, UP,IN
- Managed content calendar and basic analytics, coordinated with University chapters to increase engagement.

PROJECTS

BUILT-UP FRACTIONAL MAPPING WITH DEEP LEARNING (M.SC. THESIS)

Comparing GHSL Built-up Fractional Mapping with more complex Deep Learning Models
- Trained deep learning approach on multi-spectral imagery to estimate built-up fractional mapping.
- Eva;uated accuracy with standard metrics (IoU and overall accuracy) of U-net, Res-U-net, and Attention U-net and analyzed error patterns, Overall accuracy of 0.83.

URBAN HEAT ISLAND & ENERGY - KOLKATA METROPOLITAN AREA (2022)

Designed a pipeline to assess decadal shift of LST along with co-relation with energy consumption.
- Generated decadal LULC & LST stacks in Google Earth Engine, modeled relationship with annual energy consumption.
- Highlighted priority wards for mitigation based on spatial patterns and trend analysis.

INTERNET ACCESS TO SCHOOLS, UTTARAKHAND(2022)

Leaflet dahboard to visualize H3 Hex of accessibility of internet
- Used H3 hex indexing, scarped schools and Cell tower locations, produced a simple web map to flag coverage gaps.

HONORS/AWARDS

2023	2nd Place (Student Category) - GISCI Map Contest 2023 (Columbia)
2023	Winner - IIT Bombay FOSSEE Mapathon 2023 (Edition 3)