

# Abhishek Rawat

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## WORK EXPERIENCE

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### IFFCO-Tokio GIC PVT. LTD. — Senior Executive

Nov 2023 - Aug 2025

- Led GIS and remote sensing workflows for state-level crop insurance operations under PMFBY and RWBCIS.
- Generated and interpreted satellite-based crop condition layers (SAR, multi-spectral) to map crop stress and loss patterns.
- Evaluated results of state crop yield using Semi-physical models and machine learning models. Also, built weather-based risk assessments to support RWBCIS decision-making in Karnataka.
- Participated in YES-TECH reviews and government workshops.

### FOSSEE GIS Summer Fellow-IIT Bombay — Intern

Oct. 2023 - Mar 2024

- Contributed to open GIS learning resources, developed image super-resolution project using Google Earth Engine, Python and Keras for Deep Learning.

## EDUCATION

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2021 - 2023 M.Sc. Geo-informatics at **University of Twente, EU** (CGPA: 7.63/10.0)  
2017 - 2021 Bachelors in Urban and Regional Planning at **Amity University, IN** (CGPA: 8.76/10.0)

## PROJECTS

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### EO-Web – Satellite Imagery Retrieval Platform

[Link to Demo](#)

Web tool to search, preview, and download open satellite imagery (via STAC) without writing code, for analysis and decision-making.

### AutoClassify – Google Earth Engine App

[Link to Demo](#)

Interactive Google Earth Engine app that lets users generate quick land-use / land-cover classifications directly in the browser.

### Built-up Fractional Mapping with Deep Learning (M.Sc. Thesis)

Trained U-Net / ResU-Net / Attention U-Net on multispectral imagery to estimate fractional built-up area and benchmarked against GHSL; achieved 0.83 overall accuracy using IoU and standard RS metrics.

### Urban Heat Island & Energy – Kolkata Metropolitan Area (2022)

Mapped land use/land surface temperature in Google Earth Engine, linked LST patterns with annual energy consumption, and identified priority wards for heat mitigation and energy planning.

## SKILLS

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Programming	Python, JavaScript
AI	LLMs, Machine Learning, Deep Learning, GeoAI
Software's	Visual Studio, ArcGIS, QGIS, ERDAS, Google Earth Engine
Data Visualization	Power-BI, Matplotlib, Folium
Soft Skills	Problem Solving, Critical and Analytical Thinking

## HONORS AND AWARDS

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