



Education

MSc, Copernicus Digital Earth - GeoData Science

Awarded Erasmus Mundus Scholarship

University of Salzburg, AT; University of South Brittany, FR

2022-present

Expected completion – July 2024

- Key courses: Artificial Intelligence, Computer Vision, Spatial Databases, Advanced RS (SAR, LiDAR, Hyperspectral)
- Projects: Semantic Enrichment for Deep Learning (*ongoing* - Thesis), [Flood Rapid Prediction using SAR](#) (*ongoing*), [Timeseries classification](#) using LSTM deep learning architecture, [ML pipeline for house price prediction](#)

Urban Fellowship Program

Indian Institute for Human Settlements, Bangalore

2018-19

Grade: 3.4/4

- Key courses: Urban Informatics, Land Rights & Governance, Urban Health, Ecology, City planning
- Project: *Almost every building in Bangalore*—Built a spatial 3D dataset for Bangalore using land use plans and SRTM data (under Urban PEAK Project, supported by UK Research & Innovation)

BTech, Geoinformatics

Andhra University, Visakhapatnam

2014-18

Grade: 8.13/10

- Key courses: Remote sensing, GIS, Photogrammetry, Geomorphology, Operations Research, Statistics, Calculus
- Thesis project: Estimated population demand on PHCs in Visakhapatnam city using spatial methods

Professional Experience

EO Analytics Lab, Paris Lodron Universität Salzburg

Research Assistant (part-time)

Mar'23-Present

Salzburg, Austria

- Created Python workflows analysing multi-temporal EO datacubes from sen2cube.at for ESG metrics for real-estate properties: automated property parcel history generation, 'greenness' monitoring, 'green roof' analysis. FFG Funded.
- Built workflows on Jupyter Notebooks using Semantique, and Xarray packages.

Artha India (Formerly, the team at IDFC Institute)

Associate (Apr'22-Jun'22), Senior Analyst (Mar'20-Mar'22)

Mar'20-Jun'22

Mumbai, India

- Led methods research on analysing geographic access of urban informal settlements to their nearest health facilities
- Led data analysis components of a project evaluating the public grievance redressal system of a major state in India
- Worked with multi-stakeholder research groups consulting the central government on national open data policies
- Assisted with data analysis for state- and city-level COVID-19 serology studies
- Trained colleagues on data tools including QGIS, Tableau, Google Data Studio, and Timeline JS

Lakeer Foundation

Product Manager

May-Oct'19

Hyderabad, India

- Coordinated the development of open-source spatial tools for exploratory visualisation and analysis of city data
- Assisted on a slum-detection project using satellite imagery in collaboration with University of Southern California and Microsoft Research

Personal Open-Source Projects

Delhi Draft Master Plan 2041 Interactive tool

Jul'21

- [Recreated spatial data](#) from a city master plan & co-developed an [interactive tool](#) to make the plan more accessible
- The tool was used in local awareness campaigns across the city

Tutorials for spatial routing libraries

Oct'21

- [Exploration](#) of different libraries; [Constructing railway routes](#) using train schedule data using OSMnx, Geopandas

Leadership

IEEE AU Student Branch

Vice Chairperson

Sep'15-Dec'16

- Built the executive committee and hosted 3 technical talks and a workshop; managed 6 teams and over 200 students

Visakhapatnam Toastmasters Club

Vice President, Education

Oct'15-Mar'16

- Assisted 6 club members to overcome stage fright and achieve their public speaking goals

Skills

Software: eCognition, EnMap, PostGIS, QGIS, Google Earth Engine, ArcGIS, Kepler.gl, Tableau

Packages: [PyTorch](#), [Scikit-Learn](#), [Rasterio](#), Numpy, Scipy, Xarray, Geopandas, GDAL/OGR, [Vega-lite](#)

Languages

Telugu (Native), Hindi (Native), English (C2)