Rajeswari Parasa

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Education

MSc, Copernicus Digital Earth - GeoData Science 2022-present
University of Salzburg, University of South Brittany *Expected completion 2024*

- Key courses: Object-based image analysis, imaging spectroscopy, spatial databases, Lidar analysis, machine learning
- Project: Considerations for and implications of selecting existing gridded population datasets in humanitarian action

Urban Fellowship Program 2018-19
Indian Institute for Human Settlements, Bangalore *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 2014-18
Andhra University, Visakhapatnam *Grade: 8.13/10*

- Key courses: Remote sensing, GIS, photogrammetry, geomorphology, operations research, statistics
- Thesis project: Estimated population demand on PHCs in Visakhapatnam city using spatial methods
- Co-initiated 3 student clubs and trained their executive teams, organised 11 events and managed over 400 students

Professional Experience

Artha India (Formerly, team at IDFC Institute) Mar'20-Jun'22
Associate (Apr'22-Jun'22), Senior Analyst (Mar'20-Mar'22) *Mumbai*

- 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 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 May-Oct'19
Product Manager *Hyderabad*

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

Personal Projects

Delhi Draft Master Plan 2041 Interactive tool Jul'21

- Recreated spatial data from the city plan maps and co-developed an interactive tool to make the plan more open and accessible to citizens and researchers
- The tool was used in local awareness campaigns across the city

Railway Routes from OSM Data Oct'21

- Developed script to construct railway routes using train schedule data and railway network from OSM

Leadership

IEEE AU Student Branch Sep'15-Dec'16
Vice Chairperson

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

Visakhapatnam Toastmasters Club Oct'15-Mar'16
Vice President, Education

- Assisted 6 club members achieve their speech goals & develop their public speaking

Skills

Spatial softwares: eCognition, EnMap-Box, PostGIS, QGIS, ArcGIS Desktop & Online, Kepler
Other: Python, PostgreSQL, Tableau, Google Data Studio

Languages

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