

TRUPTI LOKHANDE

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Self-motivated and detail-oriented GIS graduate student with 4+ years of diverse work experience. Strong analytical, interpersonal, and problem-solving skills. Proficient in spatial analysis, using ESRI products, Python and R.

EDUCATION

Master of Science, Geographic Information Systems Apr 2022
Eastern Michigan University, Ypsilanti, Michigan GPA 4.0

Master of Engineering, Civil-Environmental Engineering May 2017
D Y Patil College of Engineering, Akurdi, India GPA 4.0

Bachelor of Technology, Civil Engineering May 2013
Walchand College of Engineering, An Autonomous College, Sangli, India GPA 3.81

GIS WORK EXPERIENCE

Institute for Geospatial Research and Education, Ypsilanti, MI, USA Feb 2022 – Apr 2022
Intern

- ♦ Collaborated with team members to create geodatabase for classroom management system.
- ♦ Developed python script tool for ArcGIS Pro.
- ♦ Demonstrated tool usage to the team members and administrative committee.
- ♦ Created user manual.

Institute for Geospatial Research and Education, Ypsilanti, MI, USA Jan 2022 – Apr 2022
Research Assistant

- ♦ Created and updated geodatabases with socio-economic, land uses, topography, street data, and climate data.
- ♦ Utilized geoprocessing tools in ArcGIS Pro for raster to vector conversion.
- ♦ Performed regression analysis for areal interpolation using R.
- ♦ Performed multivariate clustering analysis in ArcGIS Pro.
- ♦ Effectively documented the work progress from data collection, data processing to regression analysis.

Tata Consultancy Services Ltd, Pune, MH, India Jul 2013 – Aug 2015
Systems Engineer

- ♦ GIS technical support for ArcMap pipeline integrity system.
- ♦ Resolved technical issues with GIS applications via ticketing system.
- ♦ Interacted with clients and vendors to ensure 100% resolution of issues.
- ♦ Managed and administered licenses and GIS services using ArcGIS Server Manager and License Administrator.
- ♦ Facilitated team learning sessions for a team of 5 to enhance technical knowledge.
- ♦ Organized team events/parties to help incorporate positive workplace environment.

LINKS

- ♦ Web GIS Assignments: <https://truptilk.github.io/emugis/links/Assignment7.html>
- ♦ Web Mapping Application: <https://truptilk.github.io/emugis/links/projecthomepage.html>
- ♦ ArcGIS story maps: <https://arcg.is/0HeeOK>, <https://arcg.is/94fym>
- ♦ ArcGIS Online instant app: <https://arcg.is/1SK1mO>

SOFTWARE SKILLS

- ♦ Highly proficient in using ESRI products (ArcGIS Pro, ArcGIS Server, ArcGIS Online, Dashboard, Story Maps, Collector), Microsoft Office suite, AutoCAD.
- ♦ Advanced Beginner in ArcGIS Online Applications: ArcGIS Developer, Community Analyst, Solutions, Instant App.
- ♦ Strong analytical skills with intermediate knowledge of working with Python, R, SQL, SPSS, PostgreSQL.
- ♦ Efficient in creating web mapping applications.
- ♦ Familiarity with Tableau, Machine Learning, ArcGIS Drone2Map, GeoDa, GitHub.

ESRI MASSIVE OPEN ONLINE COURSES

- ♦ Spatial Data Science: The New Frontier in Analytics
- ♦ Going Places with Spatial Analysis

- ♦ Imagery in Action
- ♦ The Location Advantage

PUBLICATIONS

- ♦ Trupti Lokhande, Xining Yang, Yichun Xie, Katherine Cook, Shannon LaBelle, Cassidy Meyers, Jianyuan Liang (2022). GIS-based classroom management system to support covid-19 social distance planning. Computational Urban Science. Manuscript under consideration.
- ♦ Lokhande, T., Xie, Y. (2022). Spatial spillover effects of urban decline in southeast Michigan. Journal of Planning Education and Research. Manuscript under consideration.
- ♦ Lokhande, T., Mali, S., & Kote, A. (2020). Integration of GIS and AHP-ANP Modeling for Landfill Site Selection for Nagpur City, India. Recent Developments in Waste Management, 57, 499-510. doi:10.1007/978-981-15-0990-2_39

ONLINE COURSES

- ♦ Mapping in Leaflet JS Udemy
- ♦ Data Science Math Skills Coursera
- ♦ Python for Everybody Coursera
- ♦ Tableau Essential Training LinkedIn

ADDITIONAL WORK EXPERIENCE

Waingade Enviro & Agri solutions, Pimpri-Chinchwad, MH, India
Trainee

Jul 2016

- ♦ Completed a two week in-person training program in environmental legislation domain.
- ♦ Duly filled various forms for environmental legal compliances mandated by Maharashtra Pollution Control Board (MPCB), India.
- ♦ Ensured the accuracy of information for consent forms (establish/operate/renew) through client interaction over phone.

Dr. D. Y. Patil Prathisthan, Y. B. Patil Polytechnic College, Akurdi, MH, India
Lecturer

Jan 2016 – Feb 2018

- ♦ Taught civil engineering subjects – AutoCAD, Building Planning and Drawing, Hydraulics.
- ♦ Designed and implemented effective teaching plans - led 40% increase in student's grades for the assigned course.
- ♦ Utilized interpersonal skills as a parent-teacher coordinator.
- ♦ Acted as Controller of Internal Examinations.
- ♦ Planned and executed site visits to facilitate interactive experiences and understanding of construction practices.