

## SKILLS

R	SQL
ArcGIS	QGIS
Python	Tableau
Google Analytics	AutoCAD
Adobe Creative Suite	Sketchup 3D

## LANGUAGES

English	Marathi
Fluent	Fluent
Hindi	German
Fluent	Elementary

## AWARDS

Graduate Student Leadership Award  
School of Public Policy and Urban Affairs, Northeastern University

## VOLUNTEERING

Boston Cyclists' Union

## PROJECTS

Developing Transit Corridors for Hospital Workers

Boston Sidewalk Stress Index

Examining Somerville's Transportation Infrastructure

PERQ-Emissions-Scaling-Project

Tree Census Visualization 2015

Community Vulnerability Index

## NOTE:

Do not require Work Visa sponsorship till May 2023

## EDUCATION

## Master of Science in Urban Informatics

(September 2018 - May 2020)

- Studying the Effect of public transportation on Somerville's urban growth using the 'R' statistical language  
(keywords: proximity analysis, correlation study, relationship modeling)
- Examining Somerville's Infrastructure using various spatial analysis tools within ArcGIS  
(keywords: proximity analysis, voronoi cells, weighted comparative analysis)
- Understanding the Social and Infrastructural Factors Relating to Spatial Inequality in Pune, India in Python with a focus on the OSMNx (Open Street Maps, NetworkX) package  
(keywords: network analysis, social science, qualitative analysis, relationship modeling)
- Graphical Visualisation of the Pune City Tree Census 2015 using R, and Adobe Creative Suite  
(keywords: data visualization, time series analysis)

## Bachelor of Architecture

(June 2011 - April 2016)

- Analyzing the potential of civic institutions as catalysts for urban rejuvenation  
(keywords: urban design, architecture, survey analysis, seismic analysis)
- Questioning Urban Paradigms - Studying the Changing Face of a Historic Market District  
(keywords: survey analysis, overlay study)

## WORK EXPERIENCE

## Metropolitan Area Planning Council, Boston, MA

(November 2020 - Present)

Research Analyst I

## ARGOLabs, Remote

(July 2020 - December 2020)

Civic Data Research Intern

- Using ArcGIS, R, AutoCAD & Sketchup developed a 'Covid-19 Safety Index' for sidewalks in the City of Boston, to develop insights on sidewalk carrying capacity across Boston neighborhoods. Created an entire 'Data to Design' product by creating urban design solutions based on the Safety Index for 4 distinct urban morphological typologies within the City of Boston.
- Developed an index to identify vulnerable communities in Massachusetts sharply affected by unemployment and health disadvantages due to the coronavirus (covid-19) crisis  
(keywords: index creation, spatial analysis, time series, product management)

## Boston Area Research Initiative, Boston MA

(January 2019 - May 2020)

Graduate Research Intern

- Analyzed origin-destination data from the Transit App and vehicle position data from MBTA GTFS feeds, to predict route and mode preferences of commuters across the network.
- Identify existing and develop new transit corridors between essential workers; homes and work location for swift, isolated movement during pandemics. developed in the wake of the current Covid-19 crisis  
(keywords: database management, proprietary API handling, movement analysis)

## Massachusetts Bay Transportation Authority (MBTA), Boston MA

(July 2019 - December 2019)

Program Evaluation & Implementation Assistant

- Assist analysts in the OPMI (Office of Performance Management and Innovation) by writing R-scripts to contribute transit data insights to the MassDOT Tracker performance report.
- Developing a SQL integrated R-script to compare transit trips with equivalent single-occupancy car trips measuring CO2 emissions, time taken, and miles traveled. Sourced data from transit planning and revenue department databases.
- Using R and graphic layout software, created visualizations of insights on pedestrian and bicycle crash data sourced from the MassDOT IMPACT crash portal to present to the Massachusetts Bicycle and Pedestrian Advisory Board  
(keywords: data visualization, script integration, time series, proximity analysis)