Arpan Parashar
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Education

Master of Science in Geographic Information Science,   2019-2021
Clark University, Worcester, Massachusetts
Bachelor of Science in Geoinformatics,   2013-2017
University of Petroleum and Energy Studies, Dehradun, India

Skills

• ESRI Suite- ArcMap, ArcGIS Pro, ArcGIS Online, Spatial Analyst, Network Analyst, ArcGIS SDK, Survey123, ArcGIS Collector, ModelBuilder • Python • R programming • SQL • Postgre SQL • JavaScript • HTML • Tableau • Remote Sensing- Terrset • QGIS • Mapbox Studio • Microsoft Office – Excel, Word, PowerPoint • Google Earth Engine

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Professional Experience

GIS Intern, City of Worcester - Worcester, Massachusetts   June 2020- Sept 2020
• Strengthened the database by updating City of Worcester's GIS layer for 1200 food establishment using ArcGIS Pro and Microsoft Excel
• Designed and established an automated process for the visualization of updated data on Mapbox GLJS and Google Colab with Python scripting.
• Collated years of data to produce a comprehensive list of establishments.

GIS Analyst, Map My India, New Delhi   June 2017- June 2018
• Integrated, analyzed, and utilized UAV data and satellite imagery to geocode and digitize road networks, water bodies, and other significant entities on MapInfo using ArcGIS and SQL.
• Extracted key features: Points of interest, road directions and road classification from data obtained by surveys on MapInfo.
• Delivered the converted data on ArcGIS using SQL queries and integrated data extracted for navigation by coordinates.

GIS Intern, HERE Technologies, New Delhi   May 2016 –Jul 2016
• Geocoded 5000 site locations for Points of Interest, Points of address and roads with the tool HERE Map Creator for extending the map database.

Academic Experience

Analyzing COVID vaccination drives in the US and India using Google Earth Engine.   Feb 2021 – June 2021
• *Examined the number of vaccine dosages in US and Indian states.*
• *Created an interactive map using JavaScript on Google Earth Engine.*

Analyzing Socio-Economic Vulnerability of Syrian Refugees in Lebanon.   *Feb 2021 – April 2021*
• *Calculated classes and ranked the factor according to their importance.*
• *Used Raster Calculator for weighted and unweighted vulnerability layers.*

Analyzing Opioid related fatalities in Massachusetts between 2000-2015   Jan 2020- May 2020
• Examined opioid related fatalities in all 39 cities and 312 towns in Massachusetts
• Formulated space-time cube to visualize and illustrate trends of deaths in the state.
• Performed Optimized Hotpot and Emerging Hotspot Analysis on the dataset to evaluate high risk areas.

Trade Area and Analysis using Site Suitability in ArcGIS   Jan 2017- Apr 2017
• Evaluated the area for establishing a grocery store in the main market of Dehradun, India.
• Analyzed the site using weighted and unweighted suitability models to identify the ideal location.

Volunteer Experience

Humanitarian OpenStreetMap   *Sep 2019 - Present*
• Digitized settlements in Tanzania to expand the database of crowd sourced project to map areas within the country where girls are at a risk of Female Genital Mutilation (FGM)