

Shriyansh Singh

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SUMMARY

Transportation Data Scientist with expertise in **data collection** and **statistical analysis** for urban mobility initiatives. Experience developing **geospatial visualizations** and translating complex data insights into **policy recommendations** for diverse stakeholders and community groups.

PROFESSIONAL EXPERIENCE

Urban Mobility Analyst <i>Hyphenova Urban Solutions</i>	<i>April 2024 - Dec 2024</i> <i>Los Angeles, CA</i>
<ul style="list-style-type: none">• Developed comprehensive data collection programs for tracking micromobility usage patterns across urban corridors, establishing baseline metrics for infrastructure planning• Created interactive GIS maps using ArcGIS and Python that visualized cycling infrastructure, usage patterns, and safety hotspots for city stakeholders and community presentations• Conducted statistical analysis of pre/post street improvement projects that quantified 32% increase in cyclist safety, informing future infrastructure investment decisions• Collaborated with community groups and city agencies to translate technical findings into accessible presentations that effectively communicated transportation policy recommendations	
Transportation Data Specialist <i>Urban Transportation Research Institute</i>	<i>May 2022 - Oct 2022</i> <i>Mumbai, India</i>
<ul style="list-style-type: none">• Designed and maintained centralized databases for multimodal transportation counts using SQL and Python, enabling consistent analysis of travel patterns• Implemented automated data collection systems that increased accuracy of bicycle traffic monitoring by 47% while reducing manual counting requirements• Analyzed transportation safety data using statistical models in Python and R that identified high-risk corridors for prioritizing infrastructure improvements• Communicated complex transportation trends to non-technical audiences through clear data visualizations and policy briefs that informed urban planning decisions	

TRANSPORTATION RESEARCH PROJECTS

Bicycle Infrastructure Impact Analysis <i>Python, ArcGIS, PowerBI, Statistical Modeling</i>	<i>Jan 2024 – Apr 2024</i>
<ul style="list-style-type: none">• Designed comprehensive evaluation framework that quantified the impact of bike lane installations on safety metrics, modal share, and economic activity• Developed interactive PowerBI dashboards and ArcGIS web maps that enabled stakeholders to explore spatial relationships between infrastructure investments and usage patterns• Created statistical models using Python that controlled for confounding variables when analyzing safety improvements, producing rigorous evidence for policy decisions	
Micromobility Data Collection System <i>Python, JavaScript, leaflet.js, SQL, AWS</i>	<i>Sep 2023 – Dec 2023</i>
<ul style="list-style-type: none">• Built automated data collection system using Python and AWS services that aggregated micromobility trip data from multiple providers into unified database• Implemented interactive mapping platform with JavaScript and leaflet.js that visualized trip patterns, demand hotspots, and infrastructure gaps• Developed analytical reports that translated complex mobility patterns into actionable insights for planners, identifying priority areas for infrastructure investment	

TECHNICAL EXPERTISE

Data Analysis: Python (pandas, NumPy, folium), R, SQL, Statistical Modeling, Regression Analysis
Geospatial Tools: ArcGIS, QGIS, leaflet.js, GeoPandas, PostGIS, Spatial Analysis
Data Visualization: PowerBI, Tableau, Matplotlib, Seaborn, D3.js, ggplot2
Web Development: JavaScript, HTML/CSS, Flask, Dash
Other Technical: Excel, PowerPoint, Adobe Creative Cloud (Illustrator, InDesign), Git, AWS
Transportation: Bicycle/Pedestrian Planning, Micromobility Analysis, Safety Analysis, Complete Streets

EDUCATION

Indiana University Bloomington <i>Master of Science in Data Science</i>	<i>Aug 2023 – May 2025</i> <i>Indiana, United States</i>
<ul style="list-style-type: none">• Specialization: Urban Analytics and Transportation Planning• Coursework: Spatial Statistics, Policy Analysis, Urban Transportation Systems, Economics of Public Policy	