Samriddhi Khare

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Analyst and city planner specializing in geospatial analytics and machine learning, applying data-driven insights to housing, transit, and environmental systems that shape cities.

EXPERIENCE

Econsult Solutions, *Data Analyst* | Philadelphia, PA   Aug 2024 – Present

- Led development of machine learning models in Python and R to estimate economic and fiscal impacts of transit projects, housing, and urban green infrastructure supporting over 30 local and nationwide agencies.
- Designed static and interactive geospatial data visualizations and dashboards using ArcGIS, QGIS, R, Python and Power BI; Drove firm-wide integration of Adobe Creative Suite to elevate creative production.
- Conducted economic and fiscal impact studies for institutional, housing, and transit projects using R, Excel, and IMPLAN for public and private sector clients.
- Authored memos and reports for heads of city, state and transit agencies to inform regional and institutional policy.

PennPraxis, *Research Intern* | Philadelphia, PA   Feb 2023 – Feb 2024

- Calculated a school closure vulnerability index to inform the School District of Philadelphia's facilities planning process using R and ArcGIS
- Created statistical models to preemptively mitigate the student redistribution at schools at risk for closure.

Studio Sakha Ajni, *GIS Consultant* | Nagpur, India   Oct 2020 – Jan 2022

- Prepared a site plan for airport construction using Landsat raster classification, predictive spatial analysis in Google Earth Engine, and remote sensing workflows in Python.
- Mobilized groups of over 200 volunteers and professionals to prevent the destruction of 500+ acres of green buffer.

EDUCATION

University of Pennsylvania | *Master of City Planning, 2024*

Coursework: Urban Spatial Analysis, GIS, Quantitative Planning Methods, Land Use and Environmental Modeling, Geospatial Analysis in Python, Public Policy Analytics, Communication in Urban Spatial Analytics, Geospatial Cloud Computing, Machine Learning in Remote Sensing, Planning Workshop
Honors/Awards: Dean's Merit Scholarship ($50,000)

Visvesvaraya National Institute of Technology | *Bachelor of Architecture, 2022*

Honors/Awards: Awarded distinction in Architecture Design, Landscape Design, Urban Planning and Design, and Climatology; Elected Batch Representative, 2017; Elected English Literary Secretary, Collegiate Magazine, 2020

PROJECTS AND CERTIFICATIONS

TOD Planning and Benefit Cost Analyses, *New Jersey Transit*   Nov 2024 – Feb 2026

- Led the modeling of ridership/revenue and train delays to optimize transit service planning and revenue performance.
- Developed a comparative tool to model financial metrics (ROI, IRR, NOI) for future capital projects and operational scenarios.
- Supported federal and state grant applications by conducting benefit–cost analyses for fleet electrification, rail yard improvements, bridge replacements, and track expansion projects.
- Designed maps and data visualizations integrating transit routes, land use, and demographic data to support transit-oriented development (TOD) and capital planning.

Return on Investment in the Environment, *Northampton County, PA*   Dec 2024 – Aug 2025

- Developed machine learning models in R and Python to quantify the impact of parks and open space on property values.
- Engineered features from Census and assessment datasets and classified using a logistic regression
- Calculated the economic impacts of agriculture and natural system services, including carbon sequestration, public health benefits, and outdoor recreation economics

Interactive Housing Analysis Dashboard, *State of New Hampshire*   Aug 2024 – June 2025

- Created an interactive Power BI dashboard to model assessed value of new construction, municipal expenditures, and impacts on the local tax base.
- Developed a classification matrix for 145 municipalities across varying housing densities using k-means clustering in Python.
- Conducted regression analyses to quantify the marginal impact of increased housing density on municipal costs.

Geographic Information Services Professional Certificate | GIS Vision, India   Apr 2020 – July 2020

- Completed professional certification in GIS services such as ArcGIS Pro, QGIS, Network Analysis, Digital Elevation Models, Predictive Flood Modelling, and Raster Analysis

SKILLS & INTERESTS

Technical: R, Python, SQL, JavaScript, ArcGIS (Pro and Online), QGIS, Google Earth Engine, MS Suite, Adobe Creative Suite, CAD, Rhino + Grasshopper
Skills: Spatial & Statistical Analysis, GIS, Machine Learning, Data Visualization and Storytelling, Policy-Oriented Technical Writing