

Aditya Maheshwari

Urban Planner | Architect

+91-9340117228 | rbvaditya@gmail.com | linkedin.com/in/AdityaM | <https://www.adityamaheshwari.co.in/>



SUMMARY

Urban planner and architect with consulting experience across master planning, transit-oriented development, and GIS-based spatial analysis. Skilled in urban policy analysis, land-use and infrastructure planning, transport analysis, and AI-driven planning tools. Hands-on experience spanning floodplain policy, disaster-risk and environmental analysis, and data-backed urban strategies. Adept at translating complex spatial and socio-economic data into clear maps, dashboards, and actionable insights to support planning and decision-making.

SKILLS

Urban Planning & Policy: Regulatory Drafting, DPR Preparation, Infrastructure Planning, Floodplain & Risk Analysis

Spatial & Data Analytics: GIS (ArcGIS, QGIS), KNIME, Advanced Excel, Python, Spatial Analysis, LULC Modelling, Suitability Analysis

Technology in Planning: AI applications in Urban Planning, Spatial Decision Support Systems, Data-Driven Governance

EDUCATION

School of Planning and Architecture, New Delhi

Master of Planning (Urban Planning)

CGPA: 8.5, SGPA: 9.5 (Thesis)

2023 – 2025

Institute of Design Education and Architecture Studies, Nagpur

Bachelor of Architecture

CGPA: 8.61

2017 – 2022

EXPERIENCE

Graduate Urban Planner, Arcadis India

3 months

March 2025 – Present

- Contributing to land-use mapping, zone delineation, TOD analysis, and transport planning across various projects — including OD survey analysis, trip assignment, travel-demand modelling, and mode-wise trip-share (modal split) analysis.
- Performing GIS spatial analysis and data visualization (QGIS/ArcGIS, PyQGIS automation, thematic mapping) on large urban datasets — including LULC classification, land-suitability analysis, watershed analysis, watershed mapping, road-network/ROW assessment, and base-map development.

Project Associate (Consultant), School of Planning and Architecture, New Delhi

9 months

June 2025 – March 2025

- Supported government-facing urban development projects across approvals, tendering, and execution monitoring.
- Conducted policy-oriented research and spatial/data analysis, preparing technical reports to support planning decisions.

Intern, Delhi Development Authority (DDA)

2 months

June 2024 – July 2024

- Drafted planning regulations for unauthorised colonies in Zone O, aligned with NGT directives and statutory frameworks.
- Contributed to floodplain development policy, balancing environmental sustainability, risk mitigation, and urban growth.

Junior Architect, Design Zone Architects, Jabalpur

12 Months

July 2022 – July 2023

- Managed planning and coordination for 16 built-environment projects, including drawings, approvals, and site coordination.
- Conducted 30+ site inspections, ensuring compliance with approved plans and timelines.

RESEARCH

AI-Driven Real-Time Urban Resilience Assessment

Urban ARC 2026 (IIHS) - Bengaluru

Jan 2026

- **Accepted & Presented Conference Paper** on a real-time urban resilience assessment framework integrating open datasets to generate a 1 km × 1 km Urban Resilience Index for Delhi.
- Developed a prototype dashboard for exposure–sensitivity–adaptive capacity indicators and spatial vulnerability mapping.

Project link: <https://www.adityamaheshwari.co.in/real-timeurbanresilienceassessment>

PROJECTS

Thesis- Delhi: AI and Urban Identity

2025

Semester 4

- Applied **Kevin Lynch's urban framework** with **large-scale crowdsourced and street-level datasets** to assess urban perception and identity. Used **AI/NLP tools** to analyze citizen-generated data (reviews, social media), enabling **qualitative-to-quantitative policy insights**.
- Trained a hybrid CNN (Convolutional Neural Network) and ANN (Artificial Neural Network) models on data from 80 cities across the globe to generate predictive street-scape identity maps, enabling robust urban identity assessments across diverse urban contexts.
- Developed **predictive urban indicators and dashboards** to support **data-driven urban governance and planning decisions**.

Infrastructure Development Plan for Asansol, West Bengal

2024

Semester 3

- Analyzed the housing infrastructure using primary and secondary data to identify slum conditions and housing shortages.
- Mapped existing housing conditions using GIS to evaluate spatial trends and potential dilapidation.
- Projected future housing demand and devised sustainable development strategies for EWS, LIG, and slum rehabilitation.
- Prepared detailed DPRs and developed the Eco-Hive model for ex-situ redevelopment of vulnerable areas.

Master Plan for Panipat, Haryana

2023

Semester 2

- Analyzed urban scenarios to identify environmental challenges and disaster risks in Panipat, with deeper analysis of the climate and weather of the city over 20 years to generate insights on the environment.
- Employed GIS techniques for Land Suitability analysis via a weighted overlay of seven parameters, generated LST (Land Surface Temperature), NDVI (Normalized Difference Vegetation Index), and earthquake impact maps.
- Developed LULC maps using supervised and unsupervised training methods to support data-driven planning.
- Formulated strategic proposals and actionable recommendations for environmental management and disaster mitigation.

Outline Development Plan for Vapi, Gujarat

2023

Semester 1

- Assessed both physical and social infrastructure needs, focusing on key areas such as water supply, waste management, and public amenities.
- Conducted spatial analysis and created comprehensive maps to support proposed infrastructure improvements.
- Evaluated community requirements for education, healthcare, and recreational spaces to inform holistic urban planning.
- Developed strategic proposals that integrate physical and social infrastructure enhancements for sustainable growth.

ACHIEVEMENTS AND CERTIFICATIONS

- GATE (Graduate Aptitude Test in Engineering) Exam 2023 for post-graduation entrance – All India Rank (AIR): 121
- Top 18 National Entries – ANDC (Annual NASA Design Competition) (2018-19)
- Network Dynamics of Social Behavior – University of Pennsylvania, Coursera (July 2024)
- Python for Data Science and AI Development – IBM, Coursera (August 2024)

REFERENCES

1. Prof. Dr. Prafulla Parlewar

Professor, Department of Urban Planning, School of Planning and Architecture, New Delhi

Contact: +91-8407972415, email - prafulla.parlewar@spa.ac.in, Website - prafullaparlewar.com

Address: School of Planning and Architecture (SPA), New Delhi, 4-Block-B, Indraprastha Estate, New Delhi, India 110002

2. Shri Mohammad Zaid

Assistant Director (Planning), Delhi Development Authority (DDA)

Contact: +91 9997175107, email - zaidplannerzoneo@gmail.com

Address: 3rd Floor, DDA Building, Vikas Minar, ITO, New Delhi - 110002