

Aditya Maheshwari

Urban Planner | Architect

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SUMMARY

Urban Planning professional with government and institutional consulting experience, specializing in urban policy analysis, GIS-based decision support, and AI-driven planning tools. Proven experience working with Delhi Development Authority and SPA Delhi on regulatory frameworks, floodplain policy, infrastructure planning, and data-backed urban strategies. Adept at translating complex spatial and socio-economic data into actionable insights for government decision-making, aligned with national development priorities.

SKILLS

Policy & Governance Tools: Urban Policy Analysis, Regulatory Drafting, DPR Preparation, Infrastructure Planning

Data & Analytics: GIS (ArcGIS, QGIS), KNIME, Advanced Excel, Python (data analysis – beginner), Power BI dashboards

Technology in Governance: AI applications in urban planning, LULC modelling, spatial decision support systems

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

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

June 2025 – Present

Ongoing

- Supported government-facing projects involving project approvals, tendering processes, and execution monitoring in urban development works.
- Conducted policy-oriented research in urban planning, contributing analytical inputs for institutional and government stakeholders.
- Assisted in data analysis, report preparation, and technical documentation for planning-related projects.

Intern, Delhi Development Authority (DDA)

June 2024 – July 2024

2 months

- Drafted planning regulations for unauthorized colonies in Zone O, aligned with NGT directives and statutory planning frameworks.
- Assisted in floodplain development policy formulation, balancing environmental sustainability, risk mitigation, and urban growth pressures.
- Contributed analytical inputs for land-use regulation and environmental compliance, supporting evidence-based decision-making.

Junior Architect, Design Zone Architects, Jabalpur

July 2022 – July 2023

12 Months

- 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

Jan 2026

Urban ARC 2026 (IIHS) - Bengaluru

- **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 Semester 4

Jan 2025 – Present

- 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 analyse 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 Semester 3

2024

- 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 Semester 2

2023

- 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 Semester 1

2023

- 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

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2. Shri Mohammad Zaid

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

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