

SHREYA KEJRIWAL

Building Technologist | Digital Transformation | BIM and ML

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SUMMARY

I am a results-driven professional passionate about integrating advanced technology into building and infrastructure. With strong analytical, organizational, and communication skills, I excel at optimizing resources and delivering innovative solutions under pressure. Specializing in **BIM, Machine Learning, and Construction technology**, I apply cutting-edge technologies to Building Sciences and beyond. I thrive in dynamic, multi-stakeholder environments, driving efficiency and transformation across industries.

EXPERIENCE

Freelance Architect / Designer

Self-Employed

Gujarat, India

July 2021 - Present

Responsibilities:

- Conceptualized and detailed 8 residential, industrial and renovations layouts and models in autoCAD or Revit.
- Coordinated site management activities for renovation and industrial manufacturing houses.
- Conducted energy simulations (daylight, airflow) to optimise sustainability and performance.
- Reduced order delays by 1.8 days and operational resources by 12% by developing a custom script to automate order sorting and generate machine operation plans.

Architect >> BIM Architect

Vasupujya Group

Gujarat, India

October 2024 - Present

Responsibilities:

- Developed and managed 2 BIM models with Revit, ensuring accuracy and compliance with industry standards.
- Conducted clash detection and coordination for a commercial project using Navisworks to resolve conflicts between structural, and HVAC systems.
- Implemented and maintained BEP documents along with various architecture, facade and complex families.
- Used python and dynamo scripting for automating modelling, search-sort and data management tasks to enhance design workflow and efficiency.

Junior Architect

Studio 17

Gujarat, India

January 2022 - July 2022

Responsibilities:

- Managed and coordinated design explorations and drafted construction drawings for 4 projects.
- Provided software training, and designed workflows for projects to improve delivery time and efficiency by 15%.
- Developed utility drawings and custom families to ensure accurate representation of services and infrastructure.

Architecture Intern

Abhikram Conversation Architects

Gujarat, India

December 2019 - June 2020

Responsibilities:

- Managed material delivery schedules and performed by-law-compliant calculations.
- Edited and drafted projects for magazines and in-house publications.

SKILLS

Architecture Design and Modelling

- BIM (AutoCad, Revit, Navisworks, Recap)
- Modelling (Fusion 360, Rhinoceros 3D)
- Analysis tools (Covetool, Insight)

Workflow and Management

- Notion
- Microsoft Office

Programming and scripting

- Python (for Machine Learning and dynamo)
- Dynamo (Revit automation)
- Web Development (HTML, CSS, JavaScript)

Soft Skills

- Time Management and problem solving
- Efficient Delegation and Documentation

PROJECT

Masters Thesis Project

Delft University of Technology

Delft, Netherlands
November 2023 - August 2024

Title: Utilizing a Deep Learning framework for cross-layer lifecycle optimization of multi-asset transport networks.

- Presented advanced modeling techniques for a transport system, including graph systems and Deep Reinforcement Learning (DRL) for policy generation.
- Conducted a comparative analysis on the impact of factors such as cost, workforce, and dynamic maintenance on overall maintenance planning.

EDUCATION

M.Sc. Architecture, Urbanism, and Building Sciences (Building Technology)

Delft University of Technology

Delft, Netherlands
August 2022 - August 2024

Graduation grade: 8.0

Interests: Circular operational processes, BIM and computational intelligence, specifically Machine Learning to enhance the efficiency and upkeep of building services and infrastructure.

Key Projects:

- Component modelling in Revit for construction and mechanical parts
- Rule-based HVAC downtime optimization
- Feature engineering for pointcloud clustering (Group)
- Search and rescue optimization using Constraint optimization techniques (Group)

Building Information Modelling Certification course

Oneistox Pvt. Ltd. (now Novatr)

New Delhi, India
September 2021 - May 2022

Key concepts covered:

- Proficient in the BIM framework and processes.
- Develop Revit parametric families and components.
- Experience in executing a capstone residential project using BIM 360, Navisworks, REVIT.
- Primary focus on 3D modelling, coordination, and error detection.

Bachelor of Architecture

Sarvajanik College of Engineering and Technology

Gujarat, India
August 2016 - May 2021

Final grade: First class with Distinction

Key Projects:

- Focus on circular environment management and building design ideologies.
- Sustainable design technologies and computational methods for efficient design process.

CERTIFICATIONS

- Building technologist (Ir.)
- BIM certification
- Architect license (Council of Architecture, India)

LANGUAGES

- English: Proficient
- Dutch: A2
- Hindi: Native
- Gujarati: Proficient

HOBBIES

- Sketching (portraits and still life)
- Trekking
- Creative edits and graphic design