

Diya Pujara

23BCL011@sot.pdpu.ac.in, pujara.diya38@gmail.com | +91 6353474872 | <https://www.linkedin.com/in/diya28/>

EDUCATION

- Pursuing Bachelor of Technology in Civil Engineering** (Aug. 2023 – Present)
Pandit Deendayal Energy University, Gandhinagar, GJ, India
- Foundation Program in Interior Designing** (Oct. 2022 – July 2023)
Centre for Environmental Planning and Technology (CEPT) University, Ahmedabad, GJ, India

EXPERIENCES

- Research Intern, Indian Institute of Technology (IIT) - Gandhinagar, Gujarat** (May 2025 – June 2025)
- Conducted an experimental study on **quality assessment of 3D concrete printing** using **electrical resistivity measurements** to evaluate the effects of geometry, time, temperature, compaction, and interlayer bonding on material performance.
 - Analysed **manually cast and 3D-printed concrete layers** using resistivity testing and **Ultrasonic Pulse Velocity (UPV)** to identify interlayer defects, demonstrating significantly higher resistivity in poorly bonded layers and validating resistivity as an effective quality-control metric.
- Research Intern, Arizona State University (ASU), Tempe, AZ, USA** (June 2024 – July 2024)
- Conducted research on **atmospheric water capture**, with a study on **clay-based 3D printing** for sustainable water harvesting.
 - Operated a **clay 3D printer** to fabricate and test functional prototypes, integrating printed clay structures into water capture models and contributing to ongoing research on **sustainable water solutions**.

ACADEMIC PROJECTS

- Field Work at Mahatma Gandhi Aashram, Ahmedabad, GJ, India** (Nov. 2022 – Jan. 2023)
- Conducted detailed **site measurements** and prepared accurate **plans, sections, and elevations** as part of a **10-member team**, contributing to a comprehensive understanding of project scope.
 - Developed **scaled physical models** of the site at **1:50** and **1:100**, demonstrating precision in spatial interpretation and visual representation.
- Sketching and Designing Visual Story of the Wharf (Ghats) of Ganga River, Varanasi, UP, India** (Jan. 2023 – Feb. 2023)
- Conceptualized and delivered a final project documenting the **lives of children on the Ghats**, presented through a **comic-style visual narrative**, demonstrating creative storytelling and social observation skills.
 - Led a team-based project** on the **Ganga River wharf (Ghats) in Varanasi**, independently defining the project theme and research direction as Team Leader.
- Mapping at Kalupur Area, Ahmedabad, GJ, India** (Mar. 2023 – Apr. 2023)
- Developed a **comprehensive area map**, demonstrating proficiency in **cartography and spatial analysis**.
 - Executed a project analysing **local waste management systems**, highlighting environmental awareness and problem-focused planning.
- Field Workshop at Sankalan Foundation, Bhuj, GJ, India** (May 2023 – June 2023)
- Gained hands-on experience with **multiple construction techniques** through practical fieldwork as part of a **3-member team**, strengthening technical understanding and on-site proficiency.
 - Authored a **comprehensive technical book** documenting construction processes, demonstrating the ability to clearly communicate complex engineering concepts.
- Building and Testing of a Bridge Structure** (June 2023 – July 2023)
- Led a **load-bearing assessment** by incrementally applying bricks to evaluate structural capacity, overseeing testing and data observation as **Team Leader**.
 - Rebuilt and reinforced the structure after failure, implementing design adjustments to **improve load-bearing performance** and structural stability.

SKILLS

- Technical Skills:** AutoCAD, Adobe InDesign, Microsoft Office
- Soft Skills:** Sketching, Drawing, Field Work, Teamwork, Time Management, Adaptability

ACHIEVEMENTS AND CERTIFICATES

- Winner, POROCON Challenge 2025 (PS: Pervious Concrete Fabrication & Testing), CEPT University - Apr 2025
- Finalist, Concrete Catalyst- Igniting Innovation in Concrete, 2026
- Cleared National Aptitude Test in Architecture (NATA), India (National Level Exam) - June 2022
- 94.08 percentile in Joint Entrance Examination (JEE) Main – Architecture, India (National Exam) - July 2022