# Parth Trivedi

**Email :** parthtrivedi0612@gmail.com    **Phone :** +91-8764361770    **GitHub :** Parth06Git    **LinkedIn :** parth-trivedi-357916268

## Academic Qualifications

| Year | Degree/Certificate | Institute | CPI/% |
|------|--------------------|-----------|-------|
| 2025 - Present | PhD | Indian Institute of Technology, Kanpur | NA |
| 2021 - 2025 | B.Tech | Indian Institute of Technology, Kanpur | 8.74/10 |
| 2021 | RBSE(XII) | Prince School | 99.4% |
| 2019 | RBSE(X) | Akhil Bharti s.s sec school | 93.0% |

## Relevant Courses

| | |
|---|---|
| Estimation and Construction Management | Basic reinforced concrete design |
| Health Monitoring of civil Structures | Functional design of buildings |

## Achievements

- Secured **First Place** in **Civil Conclave case study** for designing a pedestrian pony truss bridge.    2025
- Secured **First Place** in **Civil department** during the second year of my B.Tech.    2023

## Experience

- **Intern – Athenalogics Solution Pvt. Ltd.**    (*May 2024 – Jul. 2024*)
  - Worked as **Project Assistant & Zuora Developer**, supporting subscription-based business operations through configuration, workflow management, and account handling.
  - Developed and deployed a Zuora application for a news subscription service, enhancing billing automation and subscription tracking. Maintained multiple Zuora applications, ensuring integration efficiency, data accuracy, and process optimization.

## Projects

- **B.Tech Term Project – Machine Learning for Castellated Columns**    (*Aug. 2024 – May 2025*)
  **Mentors:** Dr. M. Nithyadharan, Dr. Venkataraman
  - Designed and implemented an **ML-based framework** to predict buckling load of castellated columns using datasets generated via **Finite Element Method (FEM)** simulations.
  - Applied **ANN, Decision Tree Regressor, and Random Forest Regressor** using **Python, Sci-kit Learn**, achieving accurate prediction models for structural performance.
- **Pony Truss Bridge Design – Civil Conclave Case Study**    (*Dec. 2024 – Jan. 2025*)
  - Collaborated in a team to design a pedestrian **pony truss bridge** with a **3D lattice structure** for a case study competition.
  - Conducted structural analysis using **ANSYS**, ensuring load capacity and safety compliance.
- **RCC Residential Building Design**    (*Apr. 2024 – May 2024*)
  **Mentor:** Dr. Prasanna Kumar Behera
  - Performed analysis and design of a residential building as part of the **Basic Reinforced Concrete Design** course.
  - Utilized **ETABS** for structural analysis and complied with **IS 456:2000** standards for design.
- **Estimation and Planning of Residential Building**    (*Oct. 2024 – Nov. 2024*)
  **Mentors:** Dr. K.N. Satyanarayana, Dr. Prasanna Kumar Behera
  - Prepared detailed cost estimation and quantity take-offs for a residential building project.
  - Developed and optimized the project schedule using **Microsoft Project**.

## Skills

- **Technical:** Surveying, Construction Materials and Technology, Structural Analysis, Finite Element Modeling, Concrete Design, Steel Design, Construction Planning and Management, SHM.
- **Programming:** Python, C, C++, Java, JS, HTML, CSS, SQL.
- **Software and Libraries:** AutoCAD, ETABS, ABAQUS, Machine Learning, DSA, Zuora, MongoDB, MySQL, Scikit learn, ReactJS, NodeJS, ExpressJS, BootStrap, Canva, MS Porject, MS Office.

## Positions of Responsibility

- **Co-Coordinator, Aranya Club, IIT Tirupati**    (*Jun. 2022 - Sep. 2023*)
- **Event Manager & Core Member, Scribbles Club, IIT Tirupati**    (*Jun. 2024 - May 2025*)