

Ayushman Chatterjee

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Kolkata, West Bengal, India

PROFILE SUMMARY

I am a motivated and hard-working Civil Engineering graduate from a premier institute, with a strong foundation in Structural Mechanics and Finite Element Analysis.

With my strong educational background, innovative thinking and quick learning abilities, I am extremely eager to leverage my background knowledge and skills on analysis of macro-trusses and structural stability to my passion for lightweight aerospace structures toward a PhD in Aerospace Engineering focusing on deployable systems.

EDUCATION

• Indian Institute of Science

Doctor of Philosophy (PhD), Aerospace Engineering

◦ GPA: /10

July 2026 - Present
Bengaluru - 560012, India

• Jadavpur University

Bachelor of Engineering (BE), Civil Engineering

◦ GPA: 7.34/10

2021 - 2025
Kolkata - 700032, India

• Delhi Public School, Ruby Park

Senior School Certificate Examination (SSCE)

◦ Grade: 94.4%

2021
Kolkata - 700107, India

PROJECTS

• Project A: Finite Element Analysis of Footings

Tool: ANSYS 2024 R2

- Developed various scenario simulations for parametric analyses of shallow RCC footings
- Implemented FEM for analysis, achieved stress distribution and deformation behaviour
- Created different types of shallow footing models for parametric studies, by changing material properties, soil type and footing dimensions
- Applied customized loading and boundary conditions to analyze stress and deformation variations

February 2025 - July 2025


• Project B: Design of Footings

Tool: MS Excel

- Developed structural design templates for design of shallow RCC footings
- Implemented bending design and shear checks, processing volume of concrete and arrangement of steel required
- Created an MS Excel template-system for easy design results as per user input of soil properties, loading conditions and grades of concrete and steel available on-site

July 2024 - July 2025


SKILLS

- **Programming Languages:** C++, Java, Python, Fortran
- **Web Technologies:** HTML
- **Database Systems:** MySQL
- **Other Tools & Technologies:** AutoCAD, STAAD.Pro, QGIS, ERDAS Imagine, ANSYS

ADDITIONAL INFORMATION

Languages: English (B2), Hindi (B2), Bengali (B2), Spanish (A1), German (A1), Japanese (A1)

Interests: Art, Swimming, Table tennis, Badminton, Classical music (vocal), Tabla