

DEBARATI HATI

Bazarpara (Opposite Uluberia Municipality), Uluberia, Howrah, West Bengal - 711316, India
 ☎ 6290722618 ✉ debaratihati.ce@gmail.com ✉ ce25d402@smail.iitm.ac.in in [LinkedIn Link](#)

ABOUT

I am a direct Ph.D. research scholar in Structural Engineering division of the Civil Engineering department at Indian Institute of Technology (IIT) - Madras. I am determined to continue learning and growing in my field, with a particular interest in research.

EDUCATION

Indian Institute of Technology, Madras

Jul. 2025 – Present

Doctor of Philosophy (Direct Ph.D.), Structural Engineering
 Guide: **Prof. Dr. STG Raghukanth**

National Institute of Technology, Agartala

2021 – 2025

Bachelor of Technology, Civil Engineering

CGPA: **8.90/10**

- *Relevant Coursework: Mechanics of Solids, Structural Analysis, Design of Structures, Geotechnical Engineering, Structural Dynamics, Seismic Data Analytics, Case Studies in Structural Engineering.*

Uluberia High School (H.S.)

2018 - 2020

Higher Secondary (WBCHSE)

Higher Secondary Examination (2020) - 95.6%

Uluberia Binapani Girls' High School (H.S.)

2012 - 2018

Secondary (WBBSE)

Madhyamik Examination (2018) - 92%

RESEARCH AREA OF INTEREST

Structural Engineering, Earthquake Engineering.

EXPERIENCES

Academic Year Exchange Student – B.Tech.

Jul. 2024 – May 2025

Mentor: **Prof. Dr. STG Raghukanth**

Department of Civil Engineering, IIT Madras

Project topics:

1. Analysis of Quakes in Planetary Bodies from Toppled-Boulder Evidences.
2. Ground Motion Model of Fourier Amplitude Spectra for New Zealand using Mixed Effects and Neural Network Approach.

Summer Research Intern

15th May 2024 – 15th Jul. 2024

Project Supervisor: Prof. Dr. STG Raghukanth

Department of Civil Engineering, IIT Madras

Project topic: Rocking Response of Rigid Blocks under Earthquake Excitation.

Summer Research Intern

15th May 2023 – 14th Jul. 2023

Project Supervisor: Prof. Dr. Tanish Dey

Department of Civil Engineering, IIT(ISM) Dhanbad

Project topic: Buckling and Vibration Analysis of Laminated Composite Beams.

Winter Trainee

05th Dec. 2022 - 30th Dec. 2022

Supervisor: Mr. Siddhartha Mandal, SE/PWDte.

Office of the Superintending Engineer, Presidency Circle, New Secretariat Building, Public Works Directorate, Govt. of West Bengal, Kolkata – 700001.

TECHNICAL SKILLS

Programming Languages: C, Python, MATLAB

Tools & Software: PyGMT, SPECFEM3D_GLOBE, ABAQUS

EXTRA-CURRICULAR ACTIVITIES

During B. Tech. at National Institute of Technology Agartala:

- Lead at NITA Literary Club (NLC)'s Technical Writing Segment (Nov. 2022 – Oct. 2023)
- Graphic Designer at Entrepreneurship Cell NIT Agartala (Jun. 2022 – May 2025)
- Senior Wing Cadet at NCC NIT Agartala (Jan. 2022 – Jan. 2023)

During Secondary Education:

- Involved in various Extra-Curricular activities - painting, recitation, yoga, swimming etc.
- Won 7th Prize in an intra-state Drawing competition organized by SAARC Integration Sishu Mela 2012.
- Completed 5th Year in Recitation under Bangiya Sangeet Parishad.
- Participated in state-level yoga competition by Students Health Home.

LANGUAGES

- **Bengali** (Native Proficiency)
- **English** (Bilingual Proficiency)
- **Hindi** (Limited Working Proficiency)