ABHISEK CHANDA

Personal Information:

- **Contact Number:** +91-8135994958
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- **Date of Birth:** 31st October 2000
- **Father's Name:** Asis Chanda
- **Mother's Name:** Jhuma Chanda
- **Languages:** English, Hindi, Bengali, Assamese

Education:

- **MS(Research) in Civil Engineering Department**
  - **Indian Institute of Technology (IIT) Madras (Chennai, Tamil Nadu)**
  - **Research Guide:** Dr. Chandrasekhar Annavarapu
  - **Research Area:** Computational Solid Mechanics
  - July 2023 – Present
- **Bachelors in Technology in Civil Engineering**
  - **National Institute of Technology (NIT) Silchar (Silchar, Assam)**
  - **CPI:** 8.98
  - July 2018 – November 2022
- **Class XII**
  - **Kendriya Vidyalaya Maligaon (Guwahati, Assam)**
  - **CBSE**
  - May 2018
  - **Percentage:** 91%
- **Class X**
  - **St. Francis D'Assisi Senior Secondary School, Guwahati, Assam**
  - **CBSE**
  - May 2016
  - **CGPA:** 10 (equivalent to 95%)

Project Works and Internships:

- **ANALYSIS AND DESIGN OF G+3 RESIDENTIAL BUILDING**
  - **Guide:** Dr. Subhrajit Dutta (Assistant Professor, Civil Engineering, NIT Silchar)
  - July 2021 – December 2021
  - *The main objective of the project is to analyse and design a four-storey residential building. It involves creating a proposed architectural plan, grid layout for columns and beams, and elevation view. Dead load (DL) and live*

load (LL) calculations are performed for the slabs, and seismic (EQ) and wind loads (WL) are considered alongside gravity loading. The design phase encompasses beams, columns, slabs, and foundations to ensure structural safety. This comprehensive approach aims to deliver a reliable plan for constructing the residential building while meeting all necessary safety standards.

- **ANALYSIS AND MITIGATION OF RIVER BANK EROSION**
  - **Guide:** Prof. Ashim Kanti Dey (Professor, Civil Engineering, NIT Silchar)
  - January 2022 – May 2022
  - *The project addresses bank erosion in Chiri River, a Barak River tributary. It aims to mitigate erosion by stabilizing the slope in the Barak River area using modern techniques like Spurs and geotextiles. The team conducted slope stability and failure analysis, resulting in a suggested stable slope geometry. To reinforce this approach, bamboo piles were designed and installed to support the Spurs' mechanism, which effectively controls and diverts the river flow, ultimately reducing bank erosion and its impacts on the surrounding environment.*
- **STRUCTURAL DYNAMICS AND SEISMIC BEHAVIOUR OF BUILDINGS**
  - **Guide:** Dr. Prasanth Janardhan (Assistant Professor, Civil Engineering, NIT Silchar)
  - Under S.N. Bose Online Internship Programme
  - May 2021 – July 2021
  - *This study delves into the fundamental principles of structural dynamics, including dynamic analysis techniques and response to external forces. Additionally, it explores advanced concepts encountered in higher degrees, such as vibration analysis, modal analysis, and structural health monitoring. The research emphasizes seismic behavior of buildings in accordance with Indian Standard Codes, analyzing their response to earthquakes and proposing design measures for enhanced resilience.*
- **PAVEMENTS: LAYERS AND FUNCTIONS**
  - Public Works Department (Roads), Guwahati, Assam
  - December 2020 – January 2021

Achievements:

- **GATE CE 2023**
  - **AIR 1232 out of 83187**
  - **Score: 653**
- **GATE CE 2022**
  - **AIR 2449 out of 100043**
  - **Score: 595**
- **GATE AE 2022**
  - **AIR 226 out of 4726**

    - **Score: 517**
- **Assam CEE 2018 Rank 61**
- **JEE Mains 2018 Rank 63405**
- **JEE Mains 2019 Rank 30380**

Skills:

- MATLAB, Python, C, C++
- Microsoft Excel, Powerpoint, Word
- AutoCAD
- Plaxis 3D
- Structural Modeling in STAAD Pro and ETABS