



# Deepak Yadav

Roll No.: 234103103

M.Tech - Computational Mechanics

Indian Institute Of Technology, Guwahati

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech.	Indian Institute of Technology, Guwahati	6.55(Current)	2023-Present
B.Tech.	UIET CSJMU, Kanpur	6.5	2021
Senior Secondary	UP Board	67.8%	2017
Secondary	CBSE Board	7.6%	2014

## PROJECTS

- **Optimization Project** Aug. 2023 - Nov. 2023  
*Under the guidance of Prof. Deepak Sharma, IIT Guwahati* Github
  - Implemented the Bracket Penalty Function method using both the Newton method for multi-variable optimization and the Bisection method for single-variable optimization with Gradient-Based Search.
- **Computational Fluid Dynamic (CFD) Project** Aug. 2023 - Nov. 2023  
*Under the guidance of Prof. Amaresh Dalal, IIT Guwahati* Github
  - Demonstrated proficiency in iterative solvers like Jacobi, Gauss-Seidel, and Successive Over-Relaxation.
  - Applied these methods to efficiently solve discretized systems, considering factors such as convergence and stability.
- **TV Maze** Oct. 2022 - Mar. 2023  
*Self Project, Newton School* Github
  - Technical Skills: React (functional components, hooks), CSS, fetch APIs.
  - Implemented user-driven search interface with radio buttons, executed API requests, and rendered dynamically fetched data.
- **Portfolio** Apr. 2022 - Jun. 2023  
*Self Project, Newton School* Github
  - Technical Skills: HTML, CSS
  - Designed and implemented a personal portfolio application using HTML for content presentation and CSS for the visual design.

## TECHNICAL SKILLS

- **Programming:** Python\*, C, Java, JavaScript
- **Web Technologies:** HTML, CSS, JavaScript, React
- **Database Management:** MySQL, MongoDB
- **Operating Systems:** Windows, Linux\*
- **Data Structures and Algorithms (DSA):** \* Elementary proficiency

## KEY COURSES TAKEN

- **Technical Courses:** Computational Fluid Dynamics (CFD) | Finite Element Method (FEM) | Optimization | Numerical Analysis | Advanced SOM

## POSITIONS OF RESPONSIBILITY

- **Core Team Member**, Youth Empowerment Club , IIT Guwahati Sep. 2023 - Present
- **SMC Member, Barak Hostel, IIT Guwahati**, Streamlining and managing hostel service Aug. 2023 - Present

## ACHIEVEMENTS

- **GATE 2021**, Attained the highest GATE rank in my university 2021
- **GATE 2023**, Secured **96.9 percentile** in the GATE exam 2023

## EXTRACURRICULARS

- **Participated**, Coding competitions organized by Newton School coding boot camp.
- **Member, WeDoCare NGO**, Led donation drives and COVID-19 relief initiatives, delivering essential supplies to 200+ families in lockdown-hit Kanpur.