Kshitij M Gajbhiye

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B.Tech - Electronics and Electrical Engineering
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Portfolio

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.28 (Current)	2022-Present
Senior Secondary	CBSE Board	96.6%	2022
Secondary	CBSE Board	95.2%	2020

EXPERIENCE

- **Chegg** — *Nov. 2022 - ongoing*
  Chegg Subject Matter Expert — freelance
  – Answered student queries and provided detailed solutions in the field of mathematics.

PROJECTS

- **Solinas Product Design Challenge** — *Dec. 2023*
  Inter IIT Tech Meet 12.0, IIT Madras — **Link**
  – Developed a novel leadscrew based telescopic mechanism that can extend upto 5m while being no larger than 0.4 m in diameter.
  – Performed the calculations regarding the length, diameter and pitch of the screws and nuts.
  – Used fusion 360 to design cad models.

- **Portfolio Website** — *Dec. 2023*
  Self Project — **Github** , **Website**
  – Created a dynamic Portfolio Website ensuring responsiveness and an engaging user experience.
  – **Technologies Used:** The website is build using **HTML, CSS** and **JavaScript**
  – **Features:** Light-Dark theme toggling

- **Project Yuvaan, Robotics Club** — *Feb. 2023 - ongoing*
  Robotics Club, Technical Board, IIT Guwahati
  – A conceptual model of a Mars rover made for **ISRO** Robotics Challenge, International Rover Challenge and European Rover Challenge.
  – Developed a small-scale robotic system specifically engineered for conducting tests related to autonomous navigation, path planning and obstacle avoidance.
  – Designed CAD models of wheel, chassis.

TECHNICAL SKILLS

- **Programming Languages**: C, C++, JavaScript
- **Web Technologies**: HTML, CSS, ReactJs, NodeJs, ExpressJs, MongoDB
- **Operating System**: Windows, Linux*
- **Miscellaneous**: GIT, Fusion 360, Arduino   ** Elementary proficiency*

KEY COURSES TAKEN

- **Mathematics**: Linear Algebra, Calculus, Differential Equations, Real Analysis
- **Computer Science**: Introduction to Computing
- **Electronics Core**: Digital Circuits, Signals and Systems

ACHIEVEMENTS AND EXTRA-CURRICULARS

- **Inter IIT Tech Meet 12.0**: Secured **2nd** position in low prep product design challenge among **22 IITs**.
- **Nationals**: Participated in National Level Lawn Tennis Competition
- **Branch Change**: Changed Department from Mechanical Engineering to Electronics and Electrical Engineering
- **JEE Advanced**: Secured AIR 4524 among 0.15 million candidates
- **JEE Mains**: Secured AIR 6729 among 1.1 million candidates
- **Organiser**: Organised **Techniche**, the largest Technical Fest of Northeast India, worked in Robotics module