

Divyansh Gupta

Gorakhpur, Uttar Pradesh | B.Tech. EE, NIT Silchar

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EDUCATION

- **National Institute of Technology, Silchar** Assam, India
Bachelor of Technology - Electrical Engineering November 2022 - June 2026
- **GN National Public School, Gorakhpur** UttarPradesh, India
HSC ; Percentage: 92.4 July 2019 - June 2021
- **Little Flower School, Gorakhpur** UttarPradesh, India
SSC ; Percentage: 92.8 July 2016 - June 2019

INTERNSHIP EXPERIENCE

- Solar Output Forecasting (ML)** | *Python, Scikit-learn, XGBoost* ([Colab](#))
- Designed and developed a responsive eBook platform that allows users to browse, purchase, and read digital books seamlessly across devices.
 - Trained and tuned regression models (Linear, Random Forest, XGBoost) with a full ML pipeline — data cleaning, feature engineering, scaling, and evaluation using MAE, RMSE, and R^2 .
 - Achieved an **R^2 score of 0.68** with Random Forest and **12% higher accuracy** than the baseline, identifying key drivers like **temperature, cloud cover, and seasonal variation** for solar forecasting.

PROJECTS

- Collaborative Canvas (Full Stack)** | *Node.js, Express, Socket.IO, HTML, CSS, JavaScript, Render* ([GitHub](#))
- Created a real-time **multi-user collaborative drawing app** enabling users to draw simultaneously with tools like brush, eraser, color picker, and adjustable stroke width.
 - Integrated **Socket.IO-based WebSocket communication** for low-latency sync and built a **global undo/redo system** using centralized server-side state.
 - Delivered smooth multi-user rendering with under **150ms latency** and stable synchronization across concurrent sessions; deployed successfully on **Render**.

- eBook Platform (Frontend)** | *Next.js, TypeScript, Tailwind CSS* ([GitHub](#))
- Built a fully responsive **online book exploration platform** using Next.js with dynamic routing and realistic book-card UI, improving loading performance and layout stability by **30%**.
 - Designed an interactive **3-column book grid** and detailed single-book pages powered by a structured **local JSON backend**, enabling seamless transition to future API integration.
 - Developed reusable components (Navbar, Banner, BookList, BookCard) using TypeScript and Tailwind, reducing UI development time by **40%** and enhancing code maintainability.

- E-Commerce App (Backend)** | *Node.js, Express.js, MongoDB, Render* ([GitHub](#))
- Engineered and stress-tested a **scalable API backend** supporting concurrent transactions for products, carts, and checkout operations.
 - Coupled a secure authentication system using **JWT** and **role-based access control**, optimizing MongoDB queries for better throughput.
 - Reduced API latency by **40%** and achieved **99.9% simulated uptime**, showcasing strong scalability and system reliability.

TECHNICAL SKILLS

- **Languages:** C++, SQL, Python
- **Frameworks/Libraries:** React, Node.js, Express.js, Mongoose
- **Databases:** MySQL, MongoDB
- **Tools:** Git, GitHub, VS Code, Vercel
- **CS Fundamentals:** DSA, OOPs, DBMS, OS

POSITION OF RESPONSIBILITY

- **Core Executive Member — Tech Team** June 2023 – May 2025
 - Organized technical workshops like **Arduino** and **Cybersecurity**, promoting hands-on learning.

HONORS AND AWARDS

- Solved **500+ DSA problems** on [LeetCode](#), [Codeforces](#), [GFG](#), and [CodeChef](#).
- Secured **483rd** rank in the CodeSprint national-level coding contest.
- Runner-up, **Technosis 2024 Robotron Challenge (Rat in a Maze)**.