Shlok Agrahari

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Bachelor of Technology
Electrical Engineering
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EDUCATION

•**Motilal Nehru National Institute of Technology** — *2023-Present*
Bachelor of Technology,Electrical Engineering — CPI(Till 4th Semester): 8.64

•**St. Mary's Convent School** — *2023*
Senior Secondary Examination,I.C.S.E. — Percentage: 95.60

•**St. Mary's Convent School** — *2021*
Higher Secondary Examination,I.C.S.E. — Percentage: 96.83

EXPERIENCE

•**Research Intern — Dept. of Electrical Engineering, IIT (BHU)** — *Varanasi, India*
Supervisor: Dr. R.K. Saket — May 2025 – June 2025

- Designed a **Single-sided Linear Induction Motor (SLIM)** for electromagnetic launchers using **MATLAB Simulink**.
- Performed **thermal simulations** using temperature-dependent material properties in **coupled-field analysis**.
- Validated thrust performance analytically using **Parseval's theorem**.

PERSONAL PROJECTS

•**DesignEx** — *March 2025 – June 2025*
A collaborative design tool for campus-themed posters, logos, and social media content — Source Code

- **Technologies:** Next.js, MongoDB, Cloudinary, Liveblocks.js, Pusher, Stream Video SDK, JWT, Tailwind CSS
- Implemented **OTP-based signup** and social login via **Google and GitHub** for secure and seamless authentication.
- Enabled **real-time collaboration** on shared design boards using Liveblocks, allowing multiple users to co-edit simultaneously with live presence indicators.
- Integrated **real-time team chat** using Pusher and **video calling** via Stream SDK to enhance collaborative workflows.

•**EduVerse** — *November 2024 – December 2024*
A full stack online learning platform — Source Code

- **Technologies:** React.js, Express.js, Node.js, MongoDB, Cloudinary, Razorpay, Socket.io, Tailwind CSS, Zustand
- Built a full-featured e-learning platform where instructors can **create and sell courses** with video lectures, and students can **enroll**, **learn**, and track progress.
- Implemented **personalized course recommendations** based on user activity and behavior to enhance learning outcomes.
- Enabled **real-time chat** using Socket.io for doubt discussions and integrated **Razorpay** for payments.

TECHNICAL SKILLS AND INTERESTS

Programming Languages: C++, Python, JavaScript, SQL
Web Development: React.js, Next.js, Node.js, Express.js
Databases: MongoDB, PostgreSQL, MySQL
Tools & Platforms: Git, GitHub, VS Code, Postman
Soft Skills: Problem-Solving, Team Collaboration, Communication, Time Management
Areas of Interest: Full-stack Development, Competitive Programming

CODING PROFILES

LeetCode: Shlok_Agrahari

CodeChef: acute_mares_34

ACHIEVEMENTS

- Secured **3rd place** in **Dev or Die**, a Web Development Competition held at PowerSurge during TechFest Avishkar 2024, among **150+ participants**.
- Secured a rank under **3000** in **LeetCode Weekly Contest 460**, competing against thousands of participants globally.