Sakshi Kumari

B.Tech, Electronics and Communication Engineering
National Institute of Technology, Patna
Expected Graduation: 2026

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Education

Degree/Certificate	Institute/Board	GPA	Year
B.Tech, Electronics and Communication Engineering	NIT, Patna	9.53	2022–2026
Senior Secondary	Bihar Board	79.8	2021
Secondary	CBSE	85.8	2019

Experience

VaultofCodes — *June 2025 – July 2025*
Frontend Developer Intern — Remote
- Integrated **Mistral** and **LanguageTool APIs** for **auto-correction, grammar-aware suggestions**, and intelligent formatting.
- Developed a fully-interactive **Resume Builder Platform** eliminating the need for LaTeX; enabled real-time preview, dynamic form controls, multi-template switching, and high-quality **PDF exports** using **HTML2PDF** and **canvas rendering**.
- Designed a responsive UI with **custom template switching**, using **vanilla JS, CSS Grid**, and **event-driven architecture**.

IIT BHU Varanasi — *May 2024 – July 2024*
Summer Research Intern | Dr. Saumak Bhattacharya, Photonics Group — Varanasi, India
- **Applied machine learning algorithms** to accelerate the design process of **nanophotonic metasurfaces** across multiple target frequencies, optimizing for specific optical objectives under fabrication constraints with less time compare to manually."

Projects

Bitin
Digital Logic AND Timing Simulator
- **Logic Gate Simulation** Developed a tool in Python to simulate the behavior of complex digital logic circuits constructed from fundamental gates such as NAND, NOR, and NOT.
- **Circuit Timing Analysis** Engineered a feature to calculate and analyze the propagation delay of digital circuits, providing critical insights into circuit performance and timing characteristics.

E-commerce Website
Full-stack Development (React.js, Node.js, Express.js, MongoDB, JWT)
- **Frontend Features** Designed responsive user interfaces using React.js for product browsing, user registration/login, shopping cart, and checkout workflows.
- **Backend Features** Built RESTful APIs with Node.js and Express.js for user authentication (JWT), product management, order processing, and secure transactions.
- **Database Integration** Implemented MongoDB for storing user data, product catalogs, and order histories.
- **Payment Gateway** Integrated payment gateway for seamless online transactions.
- **Optimization** Enhanced database queries and API responses to ensure high performance and scalability.

Multi-Modal AI Telegram Chatbot — *Handle: @Aadsibot*
Node.js, React.js, MongoDB, Telegram Bot API
- **Full-Stack Bot Architecture** Built and deployed a complete chatbot solution featuring a **Node.js** backend, a **React.js** user portal for account management, and a **MongoDB** database to persist all user, session, and credit data, ensuring a robust and scalable service.
- **Monetized AI Services** Implemented diverse AI-driven features including image/GIF generation from prompts and text extraction from images. Integrated a pay-per-use credit system with a payment gateway to successfully monetize bot interactions and manage user accounts.

Technical Skills

Languages	C, C++, Python, HTML, CSS, JavaScript
Libraries	pandas, NumPy, Matplotlib
Frameworks	React.js, Node.js, Express.js
Database	MongoDB
Tools	Git, Postman, QGIS, CST Studio Suite, LTSpice

ACHIEVEMENTS

LeetCode	Solved **500+ problems** with a peak rating of **1700+**	2025
NPTEL (IIT Kharagpur)	Completed **Switching Circuit and Logic Design**	2025
NPTEL (IIT Roorkee)	**Silver Medal** in **Data Analytics with Python**	2025
NPTEL (IIT Madras)	**Silver Medal** in **The Joy of Computing using Python**	2025
Dainik Bhaskar Medhavi Chhatra	**Gold Medalist** in for Academic Excellence	2019
Amazon ML Challenge	Ranked **184th/75,000+** participants	2024
Adobe GenSolve Hackathon	Cleared **Round 1**; selected among top applicants	2024