

Tanish Chowdhury

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Education

Indian Institute of Information Technology, Allahabad, B.Tech in Information Technology & Business Informatics Aug. 2023 – May 2027

- GPA: 7.71/10.0 (till 4th sem)
- **Relevant Coursework:** Data Structures and Algorithms, Probability & Statistics, Database Management Systems (DBMS), Operating Systems, Object Oriented Programming, Machine Learning

Technical Skills

Languages: Python, C++, SQL, Javascript, Typescript, Java

AI/ML Data Science: Pandas, NumPy, Scikit-learn, LLM APIs (Gemini, Groq), Prompt Engineering

Frameworks Libraries: Next.js, Django, Node.js, React.js, Tailwind CSS

Databases & Tools: MySQL, PostgreSQL, MongoDB, Git, GitHub, Docker, Vercel

Experience

Web Developer (Deep Learning Lab), IIITA Aug. 2025 - Nov. 2025

- Collaborated with research teams to build accessible interfaces for AI-driven applications targeting children with ASD.
- Integrated machine learning model outputs into real-time dashboards for parents and therapists, visualizing complex data patterns.
- Developed scalable front-end architectures using Next.js and Typescript to handle data-intensive systems.

Projects

Capling — AI-Powered Personal Finance App [↗](#) [GitHub](#) [↗](#)

- Integrated **Gemini 2.0 Flash API** (LLM) for real-time natural language transaction analysis and automated budget classification.
- Implemented Generative AI features to provide personalized daily financial education content based on user spending habits.
- Built a gamified progression system to increase user retention, utilizing Supabase for real-time data synchronization.
- *Tech Stack:* Gemini API, Next.js, Typescript, Supabase.

ErrInsight — Automated Error Analysis Tool [↗](#) [GitHub](#) [↗](#)

- Leveraged **Groq's Llama 4** to engineer an automated debugging tool capable of analyzing errors across 20+ programming languages.
- Designed prompts to generate structured, actionable solutions, significantly reducing debugging time for developers.
- Developed API routes for history tracking and rate limiting to optimize LLM token usage and performance.
- *Tech Stack:* Groq AI, Llama 4, Next.js, Node.js, Appwrite.

Campus Placement Portal [↗](#) [GitHub](#) [↗](#)

- Developed a comprehensive portal using **Django REST Framework** and React, handling role-based data access for students and admins.
- Implemented secure Cloudinary integration for resume parsing and storage, optimizing database performance.
- *Tech Stack:* Python, Django, React, MySQL, REST API.