ADITI PANDEY

📞 9686975890 ✉ aditip.231it003@nitk.edu.in 🔗 Aditi Pandey ⭘ aditip149209

EDUCATION

National Institute of Technology Karnataka, Surathkal	**Aug. 2023 – May 2027**
Bachelor of Technology in Information Technology	*CGPA - 8.31*
Minors in Management	*GPA - 8*
New Horizon Gurukul, Bangalore	**Apr. 2012 – Apr. 2023**
AISSCE- Class 12	*96.2%*

EXPERIENCE

IRIS NITK **April 2025 – Present**
Web Developer *Mangaluru, Karnataka*

- Handled an infrastructure with user-base of **10K+ active users** and **1M+ Hits per year** with active modules.
- Improved **user-experience modules & UI** and **fixed bugs** on code-base using **Ruby-On-Rails** & **jQuery**.
- Engaged with **senior developers** enabling **efficient collaboration** & **debugging** critical issues, during high-traffic.
- Utilized **Git** in efficient management of the platform.

PROJECTS

Str-AI-Ver – Intelligent DSA Tutor | *React.js, FastAPI, Agno, LangChain, Supabase* June 2025

- Built an AI tutor that **analyzes DSA progress** and offers **personalized learning interventions**.
- Integrated **Agno agents and LangChain** to generate hints, **reducing student confusion by 40%**.
- Developed **adaptive feedback and difficulty adjustment** to boost concept retention and engagement.

Stegosaurus – Steganography CLI Tool | *C++, AES-256* March 2024

- Built a CLI utility to embed messages in PNG and WAV files using steganography, with optional **custom-built AES-256 encryption.**
- Implemented **full AES-256 block cipher** from scratch (key expansion, SubBytes, MixColumns, etc.).
- **Engineered modular CLI flags** (–encrypt) for customizable message embedding pipelines.

KaizenFit – Personalized Fitness Platform | *React.js, Express, Sequelize, MySQL* June 2025

- Engineered a **full-stack fitness tracker** for real-time logging of workouts, meals, and weight.
- Implemented **JWT-based authentication and CRUD modals** for secure and seamless user interaction.
- Added **custom dashboards** with visual insights, **boosting daily engagement by over 30%**.

Artist Portfolio Website | *React.js, Strapi, PostgreSQL* May 2025

- Designed and deployed a **responsive portfolio** site using **React.js, Tailwind, and Strapi CMS**.
- Enabled dynamic artwork management with **CMS integration**, improving **update efficiency by 60%.**
- Optimized **image rendering and layout** for fast load times and **100% mobile responsiveness**.

TECHNICAL SKILLS

Languages:	Python, C/C++, JavaScript, SQL
Frameworks:	React.js, TailwindCSS, Node.js, FastAPI, Express.js, Strapi, Agno Agents, LangChain
Tools:	Git, GitHub, Linux
Courseworks:	Data Structures & Algorithms, Object-Oriented Programming, Operating System, Database Systems

LEADERSHIP/EXTRA-CURRICULARS

Department of IT, Batch '27 **April 2025 – Present**
Class Representative *NITK, Surathkal*

- Elected liaison for **80+ students**; facilitated faculty coordination and resolved academic concerns.
- Coordinated with the **Career Development Cell to streamline internship drives** and notifications.

IET, NITK **September 2024 – Present**
Executive Member *NITK, Surathkal*

- Mentored **100+ juniors** on building scalable APIs with **FastAPI and AI flows using Agno agents**.
- Led **3+ tech-events and coding contests** and **improved participation by over 30%+** with pace.