

Anish Kumar

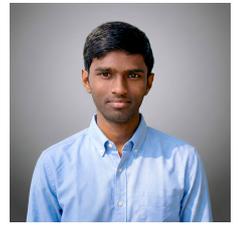
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EDUCATION

Indian Institute of Technology(IIT), Patna: CGPA: 7.34

4 August 2023 – 31 May 2027(*expected*)

Bachelor of Technology in Mathematics and Computing

Patna, India

- Courses: Data Structures and Algorithms(DSA), Machine Learning(ML), Object Oriented Programming, Database Management System (SQL and Relational Database), Probability and Statistics, Numerical Linear Algebra, Discrete Mathematics, Computer Architecture

Senior Secondary (CBSE): Percentage: 91.2%

2023

PROJECTS

OneIITP (App Development) | [▶ PlayStore](#) | [🍏 AppStore](#) | [🌐 OneAttend](#)

22 August 2024 – Present

- **Tech Stack:** React Native, Firebase, JavaScript, Microsoft Azure, Expo, React, Vercel
- Created IIT Patna's official student app serving **2,000+** active users with features including timetables, attendance tracking, marketplace, and campus resources, increasing engagement by **40%** and achieving **15,000+** reads, **1,500+** downloads, and **4.9/5** rating.
- Executed a **QR-based anti-proxy attendance system** with auto-updating codes, reducing proxies by **90%**, and designed **OneAttend** web portal for professors to track and manage attendance details with analytics dashboard integrated with Google Sheets.
- Integrated **Azure authentication** and **Google Sheets API** for real-time bus schedules, improving campus-wide convenience by **30%**.

Mock Interview AI | [🐙 Github Link](#) | [🎥 Demo Video](#) | [🌐 Deployed Link](#)

May 2025 – Present

- **Tech Stack:** Next.js 14, TypeScript, Tailwind CSS, Gemini API, Murf AI, face-api.js, WebRTC
- Integrated **Gemini API** for question-answering and **Murf AI** for real-time voice synthesis.
- Enabled **real-time facial expression & eye-contact detection** using face-api.js to simulate real interviewer reactions.
- Developed multilingual support, session analysis, and engagement metrics tailored for student improvement.
- **Selected among the Top 10 Projects** in the **Murf AI Coding Challenge 2025** out of 1000+ participants.

TPU - Systolic Array MatMul Simulator | [🐙 Github Link](#) | [🌐 Deployed Link](#)

April 2025

- **Tech Stack:** React, JavaScript, Python, Git
- Developed an interactive visualization tool comparing CPU, GPU, and TPU architectures for matrix multiplication.
- Implemented 3 distinct visualization modes (sequential, parallel, systolic array) with step-by-step animations and cycle-by-cycle breakdowns.
- Designed comprehensive comparison dashboard highlighting performance metrics (8 times vs 512 times speed differences) and architectural trade-offs.
- Created responsive UI with interactive matrix editors and real-time visualization of processing element states for educational purposes.

SKILLS

- **Languages:** Python, C, C++, JavaScript (React/Node), TypeScript
- **Database:** SQL (PostgreSQL, MySQL), MongoDB
- **Tools/Platforms:** DSA, OOP, Git, GitHub, Linux, Windows, Firebase, Postman, Vercel, Docker, Figma, Gemini API
- **Frameworks:** React.js, Next.js, Node.js, FastAPI, RESTAPI, Tailwind
- **Libraries:** Pandas, NumPy, Random Forest, XGB, React, OpenCV

ACHIEVEMENTS

- Secured **6th rank** among 6000+ submissions with cash prize in **Volatility Curve Prediction** hackathon on Kaggle by **NK Securities Research in June 2025** - [Certificate Link](#)
- Finished among **top 10 teams** in **Murf Coding Challenge 2025**, earning certificate and free credits
- **Expert** rated on **Codeforces** (Competitive Programming) - [Codeforces Link](#)
- Achieved **4 Star** rating on **CodeChef** - [Codechef Link](#)
- Secured **Global Rank 40** in **CodeChef Starters 219**
- Ranked **top 0.76%** in **JEE Advanced** (1.1M+ candidates)
- Selected for **Summer of Bitcoin 2025**; contributed to **ZeusLN Wallet** in Linux environment under mentorship by implementing and validating on-chain message signing and verification using **yarn run test, lint, tsc, and prettier**.
- Achieved **337** rank among **38,278** participants in **Codeforces Round 1027 (Div. 3)**
- Ranked **under 30** in Bihar Zone in **NTSE Stage 1**

POSITIONS OF RESPONSIBILITY — VOLUNTEER EXPERIENCE

Dev Lead for Cyber Security Problem Statement: *ICTC 3.0*

10 March 2025 - 5 April 2025

- [🌐 Deployed Website Solution](#) [🌐 Problem Statement](#)

Dev & Design Team: *Inter IIT Cult 2024, IIT Patna*

December 2024

Overall Tech Coordinator *Anwasha (Cultural Fest of IIT Patna)*

April 2025

CERTIFICATIONS

Deloitte Data Analytics Job Simulation on Forage | [🌐 Certificate Link](#)

6th May 2025

Certificate of Achievement: NK Securities Research Hackathon | [🌐 Certificate Link](#)

9 June 2025

Certificate of Achievement: Murf AI Coding Challenge 2025 Hackathon | [🌐 Certificate Link](#)

9 June 2025

Data Structures and Algorithms with C/C++: Pregrad | [🌐 Certificate Link](#)

May 2024

Generative AI Study Jams 2024: Google Developer Groups IIT Patna | [🌐 Certificate Link](#)

5 August 2024

Google Cloud Computing Foundations: Infrastructure in Google Cloud | [🌐 Certificate Link](#)

26 October 2023