NIKHIL GOYAL

🌐 Portfolio | ✉ goyalnikhil744@gmail.com | 📞 +91-6280567827 | 🔗 LinkedIn | ⭘ Github

Education

Indian Institute of Information Technology, Allahabad **Aug 2024 – Present**
BTech in Information Technology (Major) and Fundamentals of Entrepreneurship (Minor) *Prayagraj, Uttar Pradesh*
CGPA: 8.88/10

The Cambridge School **Apr 2023 – Mar 2024**
Post-Matriculation (Physics, Chemistry, Mathematics), CBSE; Percentage: 89.8% *Dhuri, Punjab*

The Cambridge School **Apr 2021 – Mar 2022**
Matriculation, CBSE; Percentage: 96.4% *Dhuri, Punjab*

Key Projects

EchoBreaker – AI-Powered News Aggregation Platform | *Dart, Flutter, Firebase, Node.js,* **Sept 2025 – Nov 2025**
REST API | ▶

- **Architected a high-performance mobile application** using **Riverpod** for robust state management, ensuring a scalable and maintainable codebase while separating business logic from UI.
- **Optimized network efficiency and data load times** by implementing **Pagination** for infinite scrolling feeds, significantly reducing API latency and bandwidth usage.
- **Developed a TikTok-style "Reels" interface** and category-based news feeds, delivering real-time content via a custom RESTful API with smooth 60fps performance.
- **Engineered a secure user system** with Firebase Auth and Firestore, enabling real-time synchronization of bookmarks, reading history, and profile data across devices.

Polygon Area Calculator | *Java, Java Swing, Java AWT, OOM* | ⭘ GitHub **Sept 2025 – Nov 2025**
- Coded an **interactive polygon area calculator** with an intuitive **Java Swing-based GUI**, allowing real-time input.
- Applied **optimized area computation algorithms** for various polygon types, improving both **calculation speed and accuracy**. Validated results for **100+ test cases with <1% average deviation** from expected output.

Technical Skills

Languages: C | C++(Expert) | Dart | Java | Javascript | HTML | CSS | Python
Technologies/Frameworks: Git | Github | Flutter | MySQL | Node.js | MongoDB
Relevant Courses: Data Structures | Algorithms | Object-Oriented Methodologies | Operating System | Web Development
Theory of Computation | Software Engineering

Coding Profiles

- Codeforces (**Expert**, 1621) ↗,   • CodeChef (**4 Star**, 1805) ↗,   • LeetCode(**Knight**, 1976) ↗

Academic and Extracurricular Achievements

- **Expert** on Codeforces with a maximum rating of **1621**. Ranked **#695** among **25,000+** (top 2.78%) active Indian users in Codeforces Round 1063 (Div.2).
- Secured top global ranks of **#53** in Starters 199 (Div. 2) and **#81** in Starters 212 (Div. 2) on CodeChef.
- Achieved a **top 0.8% global rank** (224 out of 28,000+) by killing all 4 problems in LeetCode Weekly Contest 455.
- JEE Mains 2024: AIR **4914** (top **0.4% out of 15 lakh**) & JEE Advanced 2024: AIR **5559** (top **4% out of 1.5 lakh**).

Leadership & Positions of Responsibility

Gravity (Technical Society) | *Executive Member* **Sep 2025 – Present**
- Actively contributed in **Competitive Coding Wing**, by leading cc tasks for events and maintaining consistent coding standards.

Acoustics And Media Society | *Executive Member* **Sep 2025 – Present**
- Led and coordinated media operations like photography, videography, and console handling during college events, ensuring smooth technical execution.

EXTRA

Academic Mentor | *By Physics Wallah* **Aug 2025 - Present**
- Guided over 500+ students in JEE (Mains + Advanced) preparation, focusing on strategic reasoning and exam oriented practice.

Prayaas | *Community Service* **Aug 2025 - Nov 2025**
- Mentored over 50+ underprivileged students near our college campus, helping them develop knowledge and skills.