

# RITESH SINGH

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## Education

**Indian Institute of Information Technology, Nagpur**

*Bachelor of Technology in Computer Science and Engineering*

Nagpur, India

2023 – Present

**Green Field Public School, Ghaziabad (CBSE)**

*Senior Secondary Education (Class XII) — Percentage: 92%*

Ghaziabad, India

2022 – 2023

## Technical Skills

**Programming Languages:** Python, Java, C, C++, JavaScript, HTML/CSS, SQL

**Frontend Technologies:** React.js, Next.js, Angular, Vue.js, Tailwind CSS, Material-UI

**Backend Technologies:** Node.js, Express.js, RESTful APIs, Flask, MongoDB, MySQL

**Frameworks & Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, NestJS

**Development Tools:** Git, GitHub, VS Code, IntelliJ IDEA, Firebase, Convex

## Projects

**Mental Health Detection via Social Media** | *Python, NLP, BERT, RoBERTa, Machine Learning*

[🔗 Project Link](#)

- Built NLP classification system processing 168,000+ Reddit posts to identify 8 mental health conditions with 85% accuracy.
- Implemented Logistic Regression, XGBoost, MiniLM, and Mental-RoBERTa models and evaluated performance metrics.
- Developed preprocessing, TF-IDF vectorization, and transformer tokenization pipeline reducing processing time by 40%.

**FocusFlow – AI Productivity Platform** | *React, Flask, Firebase, Gemini API, MongoDB*

[🔗 Project Link](#)

- Developed AI productivity platform with intelligent task prioritization and habit tracking serving 100+ active users.
- Integrated Gemini API generating context-aware task breakdowns in under 2 seconds with 90% user satisfaction.
- Built React frontend with reusable components improving performance and user retention.

**SiteSpark AI – Web Design Platform** | *Next.js 14, Tailwind CSS, Gemini Flash 2.0, Convex*

[🔗 Project Link](#)

- Built AI web design platform generating SEO-optimized React components from natural language prompts.
- Implemented real-time layout previews reducing design time by 60%.
- Deployed scalable Next.js application handling 500+ daily requests.

## Relevant Coursework

**Core CS:** Data Structures & Algorithms, Object Oriented Programming, Database Management Systems

**Systems:** Computer Networks, Operating Systems, Software Engineering

**AI/ML:** Artificial Intelligence, Machine Learning, Natural Language Processing

## Achievements

- **CodeChef:** 3-Star Coder with 1690 peak rating; ranked 63rd globally.
- **Codeforces:** Pupil with 1376 max rating; achieved rank 770 globally.
- **LeetCode:** Solved 320+ problems across DSA and DP.
- Competed in 20+ team-based programming contests under strict time constraints.

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## Leadership & Extracurricular Activities

**DotSlash Coding Club, IIIT Nagpur**

*Active Member & Peer Mentor*

Nagpur, India

Dec 2023 – Present

- Mentored 15+ junior students in competitive programming and algorithm design.
- Conducted problem-solving workshops using LeetCode, Codeforces, and CodeChef.

## Certifications

- **Deloitte Professional Experience Program:** Completed a Deloitte professional experience program gaining hands-on exposure to real-world consulting workflows and analytical problem-solving.

[View Certificate](#)