Ritesh Singh

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github.com/Ritesh-iiitn

Education

Indian Institute of Information Technology, Nagpur   Nagpur, India
Bachelor of Technology in Computer Science and Engineering   *2023 – Present*

Green Field Public School, Ghaziabad (CBSE)   Ghaziabad, India
*Senior Secondary Education (Class XII) — **Percentage: 92%***   *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.   Profile
- **Codeforces:** Pupil with 1376 max rating; achieved rank 770 globally.   Profile
- **LeetCode:** Solved 320+ problems across DSA and DP.   Profile
- Competed in 20+ team-based programming contests under strict time constraints.

Leadership & Extracurricular Activities

DotSlash Coding Club, IIIT Nagpur   Nagpur, India
Active Member & Peer Mentor   *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