

PRASHANT

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Education

Delhi Technological University, New Delhi

Bachelor of Technology in Computer Science

Nov 2022 – May 2026

CGPA: 8

Vivekanand School, Anand Vihar Delhi

CBSE – 12th Grade

Marks: 93.4

Projects

Tokenizer

- Developed a high-performance Byte Pair Encoding (BPE) tokenizer in C++ for efficient UTF-8 text encoding and decoding, inspired by the methods used in modern LLMs like GPT and Llama.
- Implemented custom modules for UTF-8 handling, pattern parsing, and dynamic vocabulary construction to enable rapid and accurate tokenization.
- Optimized the system to process and tokenize 548 characters in under 100ms with a 500-word vocabulary, demonstrating strong efficiency for large-scale language tasks.
- Tools used: C++

StreamJi Live

- Created a video streaming web application, emulating the functionalities of YouTube.
- Designed a responsive UI/UX with ReactJS Tailwind CSS.
- Built using the YouTube Data API via RapidAPI and deployed using Netlify.
- Tools used: React, Tailwind CSS, React Router, YouTube Data API (via RapidAPI), Netlify for deployment.

chit-chat Live

- Built a real-time group chat web app using ReactJS and Firebase.
- Integrated Google authentication and Firestore for secure data storage and instant message syncing.
- Designed a responsive, user-friendly interface with modern React components and custom CSS.
- Tools used: ReactJS, Firebase Authentication, Cloud Firestore, CSS, universal-cookie, react-scroll-to-bottom, Node.js, Vite

Achievements

- Solved 600+ problems across LeetCode (500+), Codeforces (100+), GeeksforGeeks.
- Max Ratings: Codeforces – 1048, LeetCode – 1583.
- Codeforces Global Ranks: 1312/30,000 (Round 952), 1350/28,000+ (Round 962).

Technical Skills

- **Languages:** C/C++, SQL, Python, HTML, CSS, JavaScript
- **Frameworks & Libraries:** Node.js, React.js, Express.js, Axios
- **Tools:** GitHub, VS Code, Postman, pgAdmin, npm
- **Database:** MongoDB, PostgreSQL
- **Relevant Coursework:** Data Structures and Algorithms, Operating System, DBMS, Object-Oriented Programming, Python, Machine Learning, Software Engineering

Positions of Responsibility

Mentor, Desh Ke Mentor – Govt. of NCT Delhi: Mentored 8+ students via 80+ calls on academics and career planning.