Ayush Narsian

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EDUCATION

- **Indian Institute of Information Technology, Jabalpur** — Madhya Pradesh, India
  Bachelor of Technology - Computer Science and Engineering — *Aug 2023 - Present*

- **Boston Public school** — Uttar Pradesh, India
  Higher Secondary CBSE - 90% — *Apr 2021 - Apr 2022*

TECHNICAL SKILLS

- **Languages**: Python, C, C++, TypeScript, JavaScript, Java, PHP, HTML, CSS, SQL

- **Frameworks & Libraries**: NEXT.js, React, PyTorch, Transformers, TailwindCSS, Node.js

- **Developer Tools & Databases**: Git, Docker, VS Code, Linux, Figma, MySQL, MongoDB, FAISS

PROJECTS

- **Veritas - AI-Powered E-Commerce Search Engine** — Github
  Python, PyTorch, Transformers, NLP, FAISS, BLIP Model — *Aug 2025*
  - Engineered an advanced search system using a **Twin Tower Model** for semantic understanding and an **NLP model** for sentiment analysis, improving search relevance by 22.5% and recommendation CTR by 18%.
  - Implemented multi-modal search with the **BLIP model** and developed an **Event-based engine** for contextual recommendations, resulting in 300+ daily image searches during testing.
  - Architected a high-performance backend with **FAISS** for efficient vector search and a **Trie-based** prefix matcher, reducing auto-suggestion latency to under 50ms.

- **Veil - Decentralised Health Platform** — Github
  NEXT.JS, React, TailwindCSS, Web3.js, Solidity — *Jan 2025 - Mar 2025*
  - Architected a decentralized healthcare platform on the blockchain using **Solidity** smart contracts to guarantee patient data privacy and give users 100% control over their medical records.
  - Designed and built a secure, responsive frontend using **NEXT.js, React, and TailwindCSS**, allowing doctors to request access and patients to grant approval seamlessly.

- **Mercher - Campus Ecommerce** — Github
  PHP, SQL, CSS, HTML, JavaScript — *Nov 2024*
  - Launched a campus-focused e-commerce platform using PHP and SQL that acquired **300+ active users** within two months and processed over **500+** transactions.
  - Implemented secure user authentication, intuitive cart management, and a streamlined checkout process to ensure a positive user experience and data integrity.

ACHIEVEMENTS

- **Flipkart GRiD 7.0 National Finalist**
  *Secured **All India Rank 24** out of **180,000+** participants in the individual round, advancing to the on-site National Finals at Flipkart HQ.*

- **Problem Solving** — *LeetCode*
  *Solved **over 650** questions on LeetCode and **1200+ questions** across all platforms, covering a wide range of Data Structures and Algorithms.*

- **Competitive Programming** — *Codeforces*
  *Rated **1617 (3-Star)** on CodeChef and **1437 (Specialist)** on Codeforces, securing top ranks like **Global Rank 380** in START170C.*

- **Can You Hack It? (Intra-College Hackathon)**
  *Placed **Runner-Up** out of 50+ teams in a 24-hour hackathon.*

VOLUNTEERING

- **Lead, Bitbyte - The Programming Club of IIIT Jabalpur**
  *Mentored a cohort of **500+** junior students in competitive programming as a core member of the IIIT Jabalpur Programming Club.*

- **Sponsorship Team, Hackbyte 3.0**
  *Authored proposals and led outreach to secure key sponsors, resulting in a **4x growth** in the event's scale compared to the previous year.*