



**Virat Garg**  
Bachelor of Technology  
CSE  
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## EDUCATION

- **B.Tech. in CSE** | IIIT Hyderabad | CGPA: 7.53
- **Senior Secondary** | BSM Public School, Delhi | Grade: 90.8%
- **Secondary** | OP Jindal Modern School, Hisar | Grade: 98.0%

## EXPERIENCE

- **iREL@IIIT Hyderabad** May 2025 – Present  
*Research Student*
  - Refined a pre-trained encoder-decoder model for legal documents, leading to a **30%** reduction in text length. This involved risk identification and the integration of **LangChain** for parallel processing.
  - Collaborating on developing a RAG-based **learning middleware** leveraging the **KLI** framework, which aims to personalize educational content delivery for more than **300** users and improving learning outcomes.
- **Eklavya Foundation** Feb 2025 – April 2025  
*Remote Project Intern*
  - Directed a 5-member **Agile** team in the end-to-end development of a full-fledged Learning Management System (**LMS**), specifically tailored for rural schools and benefiting over **200** students
  - Delivered a deployable **MVP** within 6 weeks, leveraging **Docker** containerization to reduce project setup time by **30%** and streamline development workflows

## PROJECTS

- **Buy/Sell@IIIT-H** [🔗] Jan 2025 – Feb 2025
  - Developed a full-stack e-commerce marketplace using the **MERN** stack with secure **JWT authentication**, enabling users to list products, manage shopping carts, and place orders along with **chatbot** support.
  - Executed comprehensive product management with **Firebase Storage** integration for image uploads, category-based **filtering** (Electronics, Furniture, Clothes), and protected routes with access control.
- **P2P File Sharing System** [🔗] Oct 2024 – Dec 2024
  - Built a distributed file system with client, naming, and storage servers communicating over **TCP** sockets.
  - Implemented **concurrency** using **multithreading**, **file locking**, and **fault-tolerant** data replication across **10** storage servers. Optimized path resolution via a **trie-based** namespace and **LRU** caching.
- **PokéGuide** [🔗] Oct 2024 – Dec 2024
  - Wrote a Python and **SQL** CLI-based application using **PyMySQL** to manage 200+ data entries.
  - Presented a normalized schema (**3NF**) to ensure data integrity and minimize redundancy in 20 tables.
- **Custom Shell** [🔗] Aug 2024 – Sept 2024
  - Built a custom **C shell** that supported **15+** distinct commands, **command parsing** with intuitive prompts.
  - Integrated core operating system functionalities, including **I/O redirection**, **piping**, comprehensive **signal handling** (e.g., Ctrl+C, Ctrl+Z), and process control to manage foreground/background processes.

## SKILLS

- **Programming Languages:** C, C++, Python, JavaScript, SQL, Bash, HTML/CSS
- **Frameworks & Libraries:** Flask, React, Node.js, PyTorch, OpenGL, Tailwind CSS
- **Technologies:** Latex, Git/Github, RESTful APIs, Docker, Vercel, Firebase, MongoDB
- **Relevant Coursework:** Operating Systems, Computer Networks, Data Structures & Algorithms, Database Systems, Software Design, Machine Learning, Automata Theory, Probability and Stats

## ACHIEVEMENTS

- Attained a Codeforces **Specialist** rating of **1430**.
- Achieved All India Rank (AIR) **855** in JEE Mains 2023.
- Secured All India Rank (AIR) **956** in KVPY 2022.

## POSITIONS OF RESPONSIBILITY

- **Design Team Head** | ASEC@IIITH | *July 2024 – Present*
- **Sports House Representative** | Sports Council@IIITH | *July 2024 – Present*
- **Apex Mentor** | Apex@IIITH | *August 2024 – December 2025*