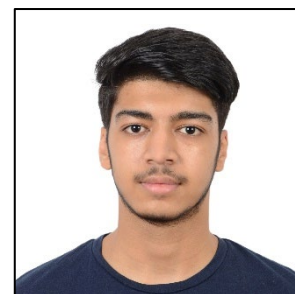# Aditya Agrawal

B.Tech – Computer Science and Engineering
Gender: Male
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Educational Qualification

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2023-Present	B.Tech- CSE	NIT, Trichy	7.58
2023	Class XII	Private International English School, Abu Dhabi, UAE, CBSE	95.4%
2021	Class X	Private International English School, Abu Dhabi, UAE, CBSE	91.2%

Academic Achievements

- **Ranked 2nd** at school level in **International Mathematics Olympiad** (IMO) by Science Olympiad Foundation (SOF) in 2019.
- Among **Top 3** students of PIES, Abu Dhabi students in **AISSCE 2023**.
- Awarded **Merit Certificate** for **obtaining Grade A1 in all 5 subjects** of AISSCE 2023.

Other Projects

- **Aurigo Elevate – Prayan Hackathon:**   *Jan 2025*
  MERN, TailwindCSS, LLaMa 3.1, Google API, JWT, Git and GitHub

  o **Smart Forecasting Module:** Designed and trained ML models to **estimate project completion timelines** based on multi-variable data including workforce size, weather forecasts (via API), project scale, and historical disaster records.
  o **Bidding Optimization Platform:** Created a MERN application to match **client procurement needs with vendor inventory to minimize costs** while ensuring fair competition and increased vendor visibility.
  o **Feedback and Complaints Portal**: Integrated Google Maps API to help citizens locate nearby sites and report noise, dust, or pollution complaints to improve community engagement.

- **Real-Time Chat Application:**   *Dec 2024*
  MERN, TailwindCSS, JWT, and Socket.io

  o Built a **real-time messaging platform** featuring instant one-on-one and group chats using **WebSockets** with **Socket.io**.
  o Integrated **user login and signup along with encryption, online status tracking and notifications, and chat persistence** using **MongoDB**.
  o The frontend was developed in **ReactJS** with seamless communication powered by **NodeJS and ExpressJS** on the backend.

- **Spotify Clone:**   *Jun 2024*
  MERN, TailwindCSS, JWT, and Redux

  - Developed a **full-stack music streaming web application** inspired by Spotify using **MongoDB, ExpressJS, ReactJS, and NodeJS.**
  - Implemented **user authentication, playlist management, search mechanism and dynamic audio playback.**
  - Designed an **intuitive UI** and ensured **responsive performance** across devices.

Technical Skills and Certifications

- Programming Languages   : C, C++, Python, JavaScript, HTML, CSS
- Frameworks/Libraries   : ExpressJS, ReactJS, TailwindCSS, Socket.io
- Tools   : Postman, NodeJS, Git, GitHub, PowerPoint, Excel
- Databases   : MongoDB Atlas
- Certifications   : "The MERN Fullstack Guide – Udemy (Ongoing)"

Positions of Responsibility

- **WebOps Team Member, Office of International Relations, NIT Trichy:**   *Feb 2025 - Present*

  Worked as a member of WebOps Team for Office of International Relations of NIT-Trichy**.**

  - Assisted in **maintaining and updating the OIR website and servers.**
  - Contributed to **UI improvements, content integration** for international collaborations and student exchange programs, and **ensured timely updates of announcements and event pages**.
  - **Collaborated** with the design and content teams to ensure consistency and responsiveness across devices.

- **Coordinator, Public Relations, Festember:**   *Nov 2023 – Sep 2024*

  Worked as a Coordinator of Public Relations of Festember'24 (National Level Inter-Collegiate Cultural Festival of NIT-Trichy).

  - Facilitated **seamless communication and hospitality** for participants and guests.
  - Managed a 24/7 helpline and actively resolved logistical issues.
  - **Acted as a central point of contact** for addressing real-time concerns

- **Team Member, Handball Contingent, NIT Trichy:**   *Oct 2023 – Oct 2024*

  Represented NIT Trichy in the college's official handball team across **multiple inter-collegiate and inter-hostel tournaments.** Participated in regular training sessions, team strategy planning, and match preparation. Contributed to the team's **consistent performance**, including **podium finishes at events** such as Aaveg 2024. Demonstrated strong teamwork, discipline, and competitive spirit.

- **National Sports Organization (NSO), NIT Trichy:**   *Aug 2023 - Present*

  Completed structured physical training and participated in athletics and team sports as part of the institute's NSO program, emphasizing discipline, endurance, and fitness.

Extracurricular Activities

Sport Activities:

- Secured **2nd place in Football and Handball** Men in **Aaveg'23 (**Inter Hostel Fest organized by NIT Trichy).