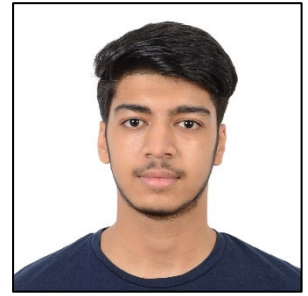# Aditya Agrawal

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	7.53
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

- Secured **2nd rank** at the school level in the **International Mathematics Olympiad (IMO)** conducted by **SOF**, 2019.
- Ranked among the **Top 3 students** of **PIES Abu Dhabi** in **AISSCE 2023**.
- Received the **CBSE Merit Certificate** for scoring **Grade A1** in all 5 subjects in **AISSCE 2023.**

Projects

- **Movie Recommender System:**   *May 2025*
  React, Python, Jupyter, FlaskAPI, Scikit-Learn, NumPy, Pandas, Kaggle

  Built a **content-based movie recommender** using **Python, FlaskAPI, and Scikit-Learn**. Employed **Bag-of-Words** and **cosine similarity** to generate recommendations from metadata. Integrated with a **React** frontend for live search and result display, using data curated from **Kaggle**.

- **Aurigo Elevate – Pragyan Hackathon:**   *Jan 2025*
  MERN, TailwindCSS, OLLaMa 3.1, Google API, JWT, Git & GitHub

  Built **three production-ready** modules using **MERN, TailwindCSS, OLLaMa 3.1, Google APIs,** and **JWT.** Designed a smart forecasting tool integrating **OLLaMa** and **Google APIs** to **predict project delays** with **~85% accuracy.** Developed a **bidding optimization system** aligning vendor inventory with client procurement needs to improve cost-efficiency**.** Enabled civic engagement via a **feedback portal** using **Google Maps API** to report construction-related issues.

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

  Developed a **full-stack real-time messaging app** with **MERN**, **JWT**, and **Socket.io** supporting **one-on-one** and **group chats**. Integrated **MongoDB** for chat **persistence**, **authentication**, online **status tracking**, and **notification** services, with a **responsive UI** built using React and TailwindCSS.

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

  Created a **scalable music streaming platform** inspired by Spotify using **MERN, Redux, and JWT**. Implemented **playlist handling**, **dynamic playback**, **user authentication**, and **search**, with a clean, **responsive UI** ensuring cross-device usability.

Technical Skills and Certifications

- Programming Languages : C, C++, Python, JavaScript, HTML, CSS
- Frameworks/Libraries : ExpressJS, ReactJS, TailwindCSS, Socket.io, Redux, Scikit-Learn, NumPy, Pandas, Flask, Jupyter
- Tools : VS Code, NodeJS, Git, GitHub, Postman, OLLaMa, MS Excel
- Databases : MongoDB Atlas
- Certifications : "The MERN Fullstack Guide – Udemy"

Positions of Responsibility

- **Deputy Manager, Technical Council, NIT Trichy:** *Jun 2025 - Present*

  Working closely with council heads and student developer teams to **ideate** and **implement scalable digital tools** that enhance campus life, including **RideNITT**. Part of **full-stack development of the official website** for **TransfiNITTe**, NIT Trichy's flagship 42-hour hackathon, facilitating seamless registration for over **1000 attendees**.

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

  Responsible for **maintaining the OIR website** and **server infrastructure** to ensure high availability and performance. Contributed to **UI/UX enhancements** and **streamlined content integration** to support global partnerships, MoUs, and incoming exchange programs.

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

  Handled **hospitality** and **communication** for **18,000+** participants and guests. Operated a **round-the-clock helpline, resolved logistical issues** and acted as a **single point-of-contact** during peak activity.

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

  Represented the institute at **inter-collegiate handball tournaments**, contributing to both offensive and defensive strategies. Attended regular training camps and participated in structured match preparation, demonstrating **resilience**, **teamwork**, and **sportsmanship** under pressure.

Extracurricular Activities

Sports Activities:

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

Leadership Activities:

- Served as **House Captain** and **Student Council Member** at **PIES Abu Dhabi** (2022–23), leading house activities and inter-house events.

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