Medha Aggarwal

📞 +91- 9501970464 ✉ medhaaggarwal24@gmail.com 🔗 linkedin.com/in/medha-aggarwal ⬛ github.com/MedhaAggarwal

Education

Indian Institute of Technology, Patna   2022 − 2026 (Expected)
Bachelor of Technology in **Computer Science and Engineering**   *CPI: 9.18 on 10*
Relevant Coursework:
Data Structures and Algorithms, Discrete Maths, Database Management Systems, and Digital Systems

Govt. Model Sr. Sec. School, Sector 35, Chandigarh   2021 − 2022
Class 12 CBSE   *Percentage : 98*

Experience

LinkedIn CochIn'24 (Mentee) | *Remote*
- Among the 70 women selected from across the country for the esteemed LinkedIn CoachIn Program 2024..
- Benefitted from one-on-one mentoring, gaining personalized insights from seasoned professionals, with a tailored focus on Problem Solving, Data Structures, and Algorithms.

Projects

Co-Author of a Research Paper | *Python, Reinforcement Learning*
- Co-authored a research paper proposing a Polite, Empathetic, Positive-biased, and Non-toxic Counseling Dialogue System.
- Utilized Reinforcement Learning (RL) and employed discriminative models as reward models to optimize the dialogue system's behavior.
- Also contributed to the development of a novel positive-biased and non-toxic dataset for the fine tuning of the model.

Faculty Recruitment Website | *MySQL, PHP*   **Source code**
- Developed a website for faculty applications and data entry, and a summary page at the end for streamlined review of candidate-submitted details.
- Also implemented PHP-based email verification and password reset features.

Smart Irrigation System With Environmental Monitoring | *Arduino*   **Source code**
- Developed an automated irrigation system using sensors (DHT11, soil moisture, water level, LDR) for optimal plant watering.
- Implemented threshold-based irrigation and water level safety features.

Achievements

- One of the 15 students selected from India for the prestigious **IUSSTF-VITERBI Program 2025**.
- Overall **Branch topper** in the first year
- JEE Mains: Secured a rank in the **top 0.4 percent of 10 lakh** students who appeared.
- **First Position** in Union Territory, Chandigarh, India (Non-Medical stream).
- **Max Rating of 934 on Codeforces**. Handle - Med24
- Recipient of **Second Rank in Talent Search Examination** of Vidyarthi Vigyan Manthan - India's largest science talent search for New India using Digital Devices (VVM) 2020-21 organized by Vijnana Bharti (VIBHA) in association with Department of Science and Technology, Govt. of India and NCERT.
- Recipient of **Gold Honour in International Youth Mathematics Challenge** 2020.
- **Awardee of First prize** in short mobile video contest which was organized by The Chandigarh Commission for Protection of Child Rights (https://www.youtube.com/watch?v=IYqZT5tXA6k) in association with State Legal Services Authority, UT Chandigarh and YUVSATTA, an NGO.

Technical Skills

Languages : C, C++, Python, MySQL, HTML
Developer Tools and Framework : VS Code, Microsoft Office, LaTeX, Arduino

Co-curricular

National Level Player / Bronze medal winner
- I have been a national level player of Softball and Baseball since grade 7. My team has also won a bronze medal in the SGFI National Baseball Championship.

Coordinator, TEDxIIT Patna
- Part of the Planning and Curation Committee that is responsible for inviting speakers and curating their speeches.

Anchoring
- Introduced guest speakers, engaged an audience of 500+ attendees and led the opening and closing ceremonies during the inauguration of the Indo-Japanese Centre of Excellence, FIST, TBI, IIT Patna.