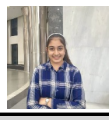
MONISHA BANGAR



ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Electrical Engineering	Indian Institute of Technology Delhi	8.6
2024	CBSE	BVB VIDYASHRAM	98%
2022	CBSE	BVB VIDYASHRAM	98.80%

SCHOLASTIC ACHIEVEMENTS

• **JEE MAINS AND ADVANCED**—Secured **AIR 3454 in Mains** and scored 99.79 percentile and **AIR 1483 in Advance**.
• **State Talent Search Examination (STSE 2021)**—Secured **4th rank** in Rajasthan with over **90% marks** in this prestigious state-level scholarship exam organized by the Board of Secondary Education, Rajasthan.
• **Vidyarthi Vigyan Manthan** —Secured **3rd position (2022)** and **2nd position (2023)** in the West Zone at the National Level (Round 3) of VVM, a science talent search exam conducted by **Vijnana Bharati** in collaboration with **Vigyan Prasar (DST, Govt. of India)** and **NCERT**. Selected for the prestigious **Srijan Internship** for top national performers.
• **Qualified for IOQJS Part II (2021–22)**—Among the **top 301 students** (the national top 1%) who qualified for the second round (Part II) of the Indian Olympiad Qualifier in Junior Science (IOQJS), conducted jointly by **IAPT** and **HBCSE**.

PROJECTS

• **Automated Library Book Finder—Course Project (PRODUCT REALIZATION THROUGH MANUFACTURING)** *(February 2025–May 2025)*:
- Developed a functional prototype of an **automated book retrieval system** with motion in 2 dimensions for accessing books on programmed shelf positions using **lead screw mechanisms** and guided arm movements.
- Used Arduino, stepper motors, and programmed fixed coordinates to control arm movement along the X and Y axes.

• **Battery Level Indicator—Course Project (INTRO. TO ELECTRICAL ENGG.)** *(November 2024)*:
- Built a basic battery level indicator using LEDs to visually **display voltage levels in real-time** for quick voltage monitoring.
- Designed a simple circuit using **LM3914 IC** and LEDs on a breadboard to display voltage levels based on input from a potentiometer.

• **AudioNote—Self Project** *(January, 2025)*:
- Developed a basic Streamlit web app that converts uploaded audio files into written notes using speech-to-text processing during a hackathon within 48 hours, focusing on functionality, speed, and efficient transcription handling.

• **Implemented Decision Tree Classifier & Regressor—Self Project** *(June, 2025)*:
- Built and evaluated classification and regression models using Python and scikit-learn on Jupyter Notebook, applying decision trees to real-world datasets like Heart Disease (Cleveland) for classification and Airfoil Self-Noise for regression.

• **Personal Portfolio Website—Self Project** *(June,2025)*:
- Designed and developed my first personal website using HTML and basic CSS, showcasing introductory content and layout structure as a hands-on exercise in foundational web development concepts and styling techniques.

• **Menu-Driven Number List Manager (Self Project)** *(June 2025)*
- Built a C++ menu-driven application to manage integer lists using vectors, featuring input validation and statistical operations.

TECHNICAL SKILLS

Languages: Python (NumPy, scikit-learn, pandas, matplotlib), C++ || **Web Development**: HTML, CSS, Streamlit || **Design and Modelling**:Figma, Canva, Autodesk Inventor || **Tools & Platforms**: Git, GitHub, Jupyter Notebook, Google Colab, Arduino, MS Excel

EXTRA CURRICULAR ACTIVITIES

• Worked as a ***Junior Project Assistant*** for ***Project Svatanya (NSS x BnC x NGO)***, contributing to website revamp and product research through user studies, wireframe design, competitor analysis, and preparation of the stakeholder pitch.
• Professional Degree in Indian Classical Dance ***(Kathak)*** ;Member of ***Nrityarat***, IIT Delhi's classical dance society ; performed in RDV opening showcase and participated in IDP and Group Dance events.
• Served as an ***NCC Naval Wing Cadet (2020–2022)***, completing two years of training focused on discipline, leadership, and teamwork.

POSITIONS OF RESPONSIBILITY

• **Representative, SPIC MACAY** *(January 2025–present)*:
- Organizing classical arts events under SPIC MACAY, coordinating with artists, and managing logistics to promote Indian heritage on campus; actively involved in planning outreach and student engagement activities.

• **Executive, ARIES** *(April 2025–present)*:
- Leading outreach and engagement efforts for AI/ML initiatives within the club; actively involved in organizing events (like ARIES summer programs), coordinating workshops, and fostering a vibrant tech-driven community.

MONISHA BANGAR

IIT COURSE

Degree	Institute	CGPA	Dept. Rank
B.Tech in Electrical Engineering	Indian Institute of Technology Delhi	8.6	33

QUALIFYING EXAM

• **Joint Entrance Examination (JEE) Advanced Rank:** 0 (GE)

COURSES DONE

Language & Writing Skill, Intro. To Computer Science, Physics Laboratory, Professional Ethics And Social Responsibility - I, Electromagnetic Waves & Qua.mec., Intro. To Electrical Engg., Intro. To Electrical Engg., Calculus, Linear Algebra & Diffe. Equa., Engineering Mechanics, Product Realization Through Manufacturing, Chemistry Laboratory, Engg. Visualization & Comm., Introduction To Chemistry, Introduction To Engineering, Language & Writing Skill-2, Professional Ethics And Social Responsibility - Ii, Nss

EXTRA CURRICULAR ACTIVITIES

• Performer, IDP - Institute Dance Production
• Participant, IDP'25: Institute Dance Production
• Participant, Inter Hostel Group Dance Competition
• Performer, Rendezvous'24 showcase

POSITIONS OF RESPONSIBILITY

• epresentative, SPIC MACAY, BRCA (January, 2025 - January, 2026), SPIC MACAY REPRESENTATIVE, Himadri, BHM (January, 2025 - January, 2026