


# DHRUV JAIN

Undergraduate Engineering Student

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## Education

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### Indian Institute of Technology, Indore

Indore, India

*Bachelors of Technology*

*Expected June 2026*

- **Major Degree:** Metallurgical Engineering and Materials Science, **8.08/10** CPI (till 3rd Semester)
- **Minor Degree:** Economics, **9/10** CPI (till 3rd Semester)

### Gyan Ganga International Academy

Bhopal, India

*Senior Secondary Schooling*

*May 2020 - June 2022*

- **CBSE 12th grade (AISSCE):** 94.8%
- **Subjects:** Mathematics, English, Chemistry, Physics, Informatics Practices

### Delhi Public School Bhopal

Bhopal, India

*High and Secondary Schooling*

*April 2015 - May 2020*

- **CBSE 10th grade (AISSE):** 95.6%
- **Subjects:** Mathematics, English, Science, Hindi, Social Science, IT

## Technical Skills

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- **Lab Techniques:** XRD Analysis, SEM, TGA-DTA, Friction and Wear testing
- **Machines Operated:** Tensile testing machine, Ultracentrifuge, Hydraulic press, CNC Wire-cut EDM, Impact testing machine(For Izod and Charpy Tests), Sheet metal testing machine, Hardness and Microhardness testing(Vickers, Knoop, Brinell, Rockwell), Muffle and Tubular furnace(and programming PID Controller), Electrochemical Etching Machine(For marking)
- **Softwares and Tools:** ImageJ, OriginPro, Thermo-Calc, MATLAB
- **Languages:** Python, C++

## Relevant Courses

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- **At university:** Thermodynamics, Transport Phenomenon, Materials Science, Mechanics of Materials, Physical Metallurgy, Metal Forming, Extractive Metallurgy, Calculus, Numerical methods
- **Other Courses (Online Etc.):** Nanotechnology: A Maker's Course (Duke University through Coursera), Introduction to Programming with MATLAB (Vanderbilt University through Coursera)

## Achievements, Awards and Honours

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### NTSE Scholar

New Delhi, India

*Recipient of National Talent Search Scholarship*

*July 2021*

Awarded by NCERT, Ministry of Education, Government of India

### AIR 11, GeoGenius National Geography Olympiad

Mumbai, India

*National Finalist*

*April 2019*

Awarded by IGBG Learning Society, Kota, India

### AIR 8, National Interactive Mathematics Olympiad

Kurukshetra, India

*Olympiad Conducted by EduHeal Foundation, New Delhi*

*January 2014*

All India Rank 8 , Second State Topper with Score 24/25

## Projects

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### Synthesis of Multilayered-Mxene through Fluorine-free Molten Salt Etching

*Nano and Energy Materials Lab, IIT Indore*

- Synthesis of Mxene from MAX Phase and its characterization(SEM and XRD).
- Molten Salt Etching in tubular furnace in argon environment.

### Modification of glassy-carbon electrode

*Nano and Energy Materials Lab, IIT Indore*

- Modifying Glassy-carbon electrode with various nanomaterials with and without using binders using drop-casting.
- Open circuit potential, Linear sweep voltammetry and Cyclic voltammetry measurements using the modified electrode.

Positions of Responsibility and Experience

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<b>B.Tech Research Member</b> <i>Nano and Energy Materials Laboratory, IIT Indore</i>	<b>IIT Indore</b> <i>October 2023 - till date</i>
<b>Club Head</b> <i>Metacryst Club, IIT Indore</i>	<b>IIT Indore</b> <i>April 2024- till date</i>
<b>Core Member</b> <i>Content and Research division, Metacryst Club, IIT Indore</i>	<b>IIT Indore</b> <i>May 2023 - April 2024</i>

- Converting complex scientific topics into easy-to-understand social media posts.
- Writing E-mails for the club. Convincing students and increasing engagement and participation in various events.
- Designing questions for quiz competitions, which are tough for AI tools like ChatGPT to crack.

Languages Known

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- **English** ( Full Professional Proficiency)
- **Hindi** ( Native Language)
- **French** (Basic/elementary)

\*\*last updated 5<sup>th</sup> April, 2024