

DIVIJ GUPTA



Honors student with an excellent track record in all the subjects combined with analytical thinking and creative solutions, with immense enthusiasm in **Astronomy, Mathematics and Computer Science** displaying proficiency in various Programming languages. Looking forward to working on intense projects and gaining more experience contributing all my skills.

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<https://www.exospace.co.in>

EDUCATION

High-School

Welham Boys' School,
Dehradun, Uttarakhand,
India - 248001

Affiliated with CBSE

High School Junior Grade XI
Graduation in March'26

Summer Programs

- Immerse Education
Cambridge University, UK
Program in Engineering
Earned 30% Scholarship
through Essay Competition
- Advanced Space Academy
U.S. Space & Rocket Centre
Huntsville, United States
Collaboration with NASA

All India Secondary School Examinations

Grade X - 98.5%

Grade IX - 96.28%

Grade XI
Mid-Term Examinations - 94.4%

AP Calculus AB - 5/5

AP Physics C:
Mechanics - 5

AP Computer Science
Principles - 5

AP English Language
and Composition - 4

PSAT Mathematics - 760/760

PSAT English (Reading and
Writing) - 700/760

PROFESSIONAL EXPERIENCE

Intern, Data Analyst and Scientific Computing, Indian Institute of Tropical Meteorology (Dec'23 - Jan'24, 30hr/wk)

- Worked under Dr. Manmeet, a Scientist (Rank-D) pursuing his Doctorate in Climate Sciences at Indian Institute of Tropical Meteorology, inferring the data of the VolMIP-CMIP6 Experiments for the Indian Core Monsoon region using Python.

Research Intern, World Scholars Academy (Jul'24, 7 hr/wk)

- Authored a 5500+ Word Review Paper titled "Hypersonic Propulsion Systems Review" published in the International Journal "World Scholars Review" mentored by Samuel Baker, Doctoral Candidate, Centre for Excellence, Oxford University
- Link: <https://www.worldscholarsreview.org/article/hypersonic-propulsion-systems-review>

Design Intern, DesignoWeb Inc. (Jun'24 - Aug'24, 4hr/wk)

- Flourished my front-end coding skills to develop Applications and Games, through the means of Android Studio and Flutter which have been published nationally.

ACADEMIC CREDENTIALS

- Professional Certification on Full-Stack software development by IBM, which comprises 12 certifications ranging across Python, JavaScript, HTML, React, and SQL (6 Months, 8hr/wk).
- Astronomy: Exploring Time and Space by University of Arizona (3 Months, 3hr/wk).
- Space Science, Technology and Applications Course by Indian Space Research Organisation. (1 Month, 7hr/wk)
- Remote Sensing Technology Course by Indian Space Research Organisation. (1 Month, 3hr/wk)
- Overview of Geographic Information Systems Course by Indian Space Research Organisation. (1 Months, 3hr/wk)

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Niti Aggarwal
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DIVIJ GUPTA

Website (Self-Developed): <https://www.exospace.co.in>

Mailing Address:

Pitampura
New Delhi, India - 110034

School Address:

Welham Boys' School
Dehradun, India-248001

LANGUAGE

PROFICIENCY

English 

Hindi 

German 

Qualified A2 German Exam
by Goethe-Institut

SOFT SKILLS

Leadership
Team Management
Time Management
Effective communication
Problem Solving
Critical Thinking
Adaptability
Technical
Discipline

TECH SKILLS

- Robotics (Arduino C++)
- Python
- Java
- JavaScript
- HTML/CSS
- MS Word
- MS PowerPoint
- MS Excel
- Basic Arduino
- Adobe Premier Pro
- Wordpress
- Flutter
- ReactNative

- Game Development Course in Java by Whitehat Education Technology. (3 Months, 5hr/wk)
- Digital Cinematography and Video Editing Certification by Film and Television Institute of India (1 week, 56hr/wk)

PROJECTS

- Designed a Wifi-controlled robot (Hardware and Software), with the ability to move using a website that controls the rover's Wifi module. (2 Month, 7hr/wk)
- Attended the AI Scholars' Summer program by InspiritAI and designed a Project to search for exoplanets with a given database from NASA. (2 Weeks, 28hr/wk)
- Built a Green Building project, with stationary and working elements, including Piezoelectricity and Green HVAC Model. (4 Months, 10hr/wk)
- Spearheaded aeromodelling and drone building project, and worked on its aerodynamic efficiency. Presented at the Indian Institute of Technology, Delhi in collaboration with Rancho Labs.

VOLUNTEERING EXPERIENCE

Founder, STEMspire, Non-Governmental Organization (Dec'23 - Present)

- Promotes STEM awareness, career prospects, and integration with Arts, including government schemes.
- Spearheaded workshops and curricula for application-based learning in schools across India, and conducted outreach programs by collaborating with different organizations.
- Engaged 20+ members to impact 3000+ students globally.

Project Leader, Mohini Maitre Dignity in Humility IPSC Service Project 2024 (Sep'24-Oct'24)

- Spearheaded workshops on sustainable farming and SEL.
- Directed impactful initiatives on women's health.
- Led programs promoting environmental conservation and leadership.

Participant, Global Changemakers Youth Program (Aug'23 - April'24, 12hr/Month)

- Working with Bindi International to break social taboo of rural women in India, and creating 20 Reusable Sanitary Pads.
- Providing and instructing over electrical appliances such as Solar Lamps in Rajasthan.

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CLUBS & SOCIETIES

- **Student Incharge,**
Science Club
- **Senior Member,**
Debating Society
(English)
- **Senior Member,**
Model United Nations
Club
- **Senior Member,**
Military History Club
- **Senior Member,**
LRC Council
- **Senior Member,**
Astronomy Club
- **Member,**
Robotics Club

PUBLICATIONS AND RESEARCH

- Senior Editor of Welham's Flagship Publication "The Oliphant ", Scientific Publication "The Wavelength", Literary Publication "The Inkwell", Financial Publication "The Innoventure" and Political Publication "The Politicia"
- Written a Science Fiction Novella titled, "The Arctic Veil" as part of the BriBooks Writing competition, which has been awarded with the Platinum Medallion and is also the Uttarakhand Best Seller Book, and continues to provide Author Royalty.
- Authored Review Paper titled "Hypersonic Propulsion Systems Review" which was published under the International Journal "World Scholars Review"

AWARDS & HONORS

- Achieved the AP Scholar with Distinction Award (2024) through College Board
- Consecutive winner in Centre for Education in Mathematics and Computer Sciences Friar (Grade-X) and Galois (Grade-XI) contest with school topper and distinction certificate by University of Waterloo.
- Qualified the Indian Olympiad Qualifiers in Mathematics and achieved the Certificate of Merit.
- Achieved the "High Distinction" certificate in the International Chemistry Quiz by the Royal Australian Chemical Institute for getting an aggregate of 90% and above in the Intermediate Category.
- Ranked 23rd nationally, and achieved the Gold Medal in the Unified Cyber Olympiad, and received scholarship kit worth Rs. 3996.
- Ranked 3rd in Uttarakhand, and achieved the Gold Medal in the Unified International Mathematics Olympiad, and received scholarship kit worth Rs. 1998.
- Ranked 50 Internationally in the Indian School Talent Search Olympiad and Achieved Certificate of Merit.
- Runners up in the Preliminary round and qualification in the All India Infinity Math Competition by the Aditya Birla World Academy, and earned the Merit Certificate in the Maths Champion Round.
- Received a 30% scholarship for Cambridge Summer Program rewarded in the Immerse Education Essay competition.
- Recipient of Welham's Scholar's Scarf Award for excellence in academics and co-curricular activities.

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HARD SKILLS AND INTERESTS

- Data Analysis
- Statistical Analysis
- Big Data
- Presentational skills
- Research and Reporting
- Creative Writing
- Artificial Intelligence and Machine Learning
- Object-Oriented Programming
- High-Order Calculus and Differential Equations
- Observational Astronomy
- Astrophysics
- Problem Solving
- Computational Mathematics
- Applied Physics
- Pure Mathematics
- Scientific Computing

- Qualified to the Final Round of the Indian Space Science Olympiad to be held at the Indian Institute of Science, Bangalore
- Secured the Runners-up position at the Tata Essay Competition at the school level.
- Recipient of Welham's Scholar's gown for final aggregate of 91% and above, and not less than 80% in any individual subject two times in a row.
- Consecutive winner of Les Lecteur Voraces' Award for displaying exemplary vocabulary and book reading skills.
- Distinction Certificates and Subject Awards in English, Mathematics, German, Music, Computer Applications.
- Recipient of the Principal's Award for securing the First Position in the All India Secondary School Examinations achieving an aggregate of 98.40% (English, German, Mathematics, Science and Social Science) and 99 in Computer Applications

EXTRACURRICULARS

- Executive Board member of Welham Boys' School Model United Nation 2024 and Student Public Relations Coordinator of Military History Seminar India 2024.
- Completed the Winter ascent of Brahmatal Trek altitude 12250 ft. under the guidance of Himalyan Hikers Organisation.
- Distinction Certificate for Initial Grade and Grade 1 keyboard and Piano respectively by Trinity College London
- Merit in Initial Grade Drama and Speech by Trinity College London.
- Pianist in the school's Orchestra "The Ensemble"
- Published a website using wordpress with many back-end and front-end features
- Qualification to the Intermediate Round of the Indian Schools Debating Championship placing Top 30 Nationally.
- 4 Best Delegates, and 3 High Commendation Awards in the Indian Public School Conference (IPSC National level), Doon School, Selaqui International and Mayo College Girls School Model United Nations.
- Best Speaker Award at Doon School, St. Georges College and Welham Girls' School and East India Debates for various Interschool Debates.

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