

# Vishal Chawla

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## EDUCATION

<b>Shiv Nadar Institution of Eminence</b> <i>Bachelor of Science (Research) in Mathematics; GPA: 8.07/10</i>	Greater Noida, India Aug 2020 – May 2024
<b>Cambridge International Foundation School</b> <i>IBDP (International Baccalaureate Diploma Programme); Total Points: 32, Math HL - 6</i>	Jalandhar, India 2017 – 2019
<b>Cambridge International Foundation School</b> <i>IGCSE (International General Certificate of Secondary Education) ; Mathematics - 89%</i>	Jalandhar, India 2015 – 2017

## RESEARCH AND PROJECTS

<b>Undergraduate Thesis</b> <i>Shiv Nadar Institution of Eminence</i> <ul style="list-style-type: none"><li>Principal Advisor: Prof. Amber Habib</li><li>Exploring the literature encompassing from functional analysis, representations, operator algebras and incorporating new operator theoretic ideas to understand the proof of BDF theorem for essentially normal operators.</li></ul>	Greater Noida, India Aug 2023 – May 2024
<b>Analysis of Netflix's plan to launch regional content in India</b> <i>Cambridge International Foundation School</i> <ul style="list-style-type: none"><li>Research Question: To what extent the introduction of original productions in regional dialect from India will help Netflix to emerge as a future market leader.</li></ul>	Jalandhar, India Jan 2019 – May 2019
<b>Inventory Management System</b> <i>Cambridge International Foundation School</i> <ul style="list-style-type: none"><li>Created an Inventory management system for a local Bakery with automatic invoice generation in accordance with GST laws, protected profile access, automatic alerts in case of low volume and HSN id detection in Java and JavaFX using H2 database as backend.</li></ul>	Jalandhar, India Oct 2018 – Apr 2019
<b>Exploring closed curves of given perimeters that inhibit maximum area</b> <i>Cambridge International Foundation School</i> <ul style="list-style-type: none"><li>Made use of Differential Equations, Partial Derivatives, Lagrange Multipliers, and Vector Calculus to explore Dido's problem i.e. to attain shapes of closed curves of given perimeters that inhibit maximum area. Correlated this with limits and areas of n-sided polygons to arrive at the same result. Concluded with the result's importance on cost cutting and manufacturing process.</li></ul>	Jalandhar, India Dec 2018 – Apr 2019

## TALKS AND SEMINARS

<b>MathXChange, An Indian Statistical Institute x SNIoE Talk Series</b> <i>Shiv Nadar Institution of Eminence</i> <ul style="list-style-type: none"><li>Title: Characterising Orthogonality in general normed linear spaces</li><li>Abstract: A talk given introducing Birkhoff-James Orthogonality; exploring its properties and connections with convexity, hyperplanes, linear functionals and weak compactness. We also further motivate its connection with approximation theory.</li></ul>	Greater Noida, India October 2023
<b>Winter School on Games in Evolutionary Dynamics</b> <i>Shiv Nadar Institution of Eminence</i> <ul style="list-style-type: none"><li>Attended lectures on Game Theory, Dynamical Systems and Evolutionary Dynamics hosted by leading researchers in the fields.</li><li>Discussed and explored ongoing research in these fields at top institutions</li></ul>	Greater Noida, India October 2023

## SOCIAL ACTIVITIES

<b>Senator</b> <i>Shiv Nadar University Student Council</i> <ul style="list-style-type: none"><li>Part of the IT Committee (SNU)</li><li>Class Representative for Batch of 2023 &amp; 2024 (Mathematics)</li></ul>	Greater Noida, India Apr 2023 – Mar 2024
<b>Marketing and Content Team Manager</b> <i>FINVEST- The Finance and Investment Cell of Shiv Nadar University</i>	Greater Noida, India Dec 2020 – Mar 2022

## SKILLS

**Language:** English (*Full professional proficiency*), Hindi (*Native or bilingual*), Mandarin (*Novice 2 Certified*), German (*A1 Certified*), Punjabi (*Spoken only*).  
**Programming:** C/C++, Java, Python, SQL, LaTeX.

## RECOMMENDATIONS

Dr. Amber Habib  
Dr. Priyanka Grover