

# Arjun Maneesh Agarwal

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*"It is better to live your own destiny imperfectly  
than to live an imitation of somebody else's life  
with perfection" — 3.35 Shrimad Bhagavad Gita*

## Education

- 2024– 2027 **BSc in Mathematics and Computer Science, Chennai Mathematical Institute (CMI)**  
○ Recipient of Shriram Scholarship (full tuition waiver and stipend).

## Courses Credited

- First Semester Introduction to Programming in Haskell, Algebra I (Linear Algebra), Real Analysis, English, Classical Mechanics I  
Second Semester Advanced Programming with Python, Algebra II (Group Theory), Calculus I, Discrete Math, Probability Theory

## Academic Achievements

- 2024 All India Rank 24 in ISI-B.Math Entrance Exam.  
2024 650 marks with 180/180 in Zoology in NEET-UG.  
2024 5.5k and 7.5k All India Rank in JEE Mains and JEE Adv.  
2024 94.4 % in CBSE Boards-12 with 95% in Physics, Chemistry and Mathematics.  
2023 Indian National Informatics Olympiad (Qualified 2023).  
2022–2023 Indian National Astronomy Olympiad (Qualified 2022, State Top 1% 2023).  
2022–2023 Indian Biology Olympiad (State Top 1% 2022, 2023).  
2022 94.5 % in CBSE Boards-10 with a perfect score in Math and Science and 98 % in Social Studies.  
2020 Indian Olympiad Junior Science (Qualified).  
2019–2023 Qualified for Indian Olympiad in Mathematics Merit List (2019, 2020, 2022, 2023) and gave RMO(2023) and INMO(2019,2020).

## Relevant Experience

- 2025 **Contributor and Physics Head, STEMS (CMI)**
  - Designed problems for STEMS in Computer Science and Physics sections.
  - Served as Physics Head.
- 2025 **Teaching Assistant, Introduction To Haskell Programming, NPTEL**, under Prof. SP Suresh
  - Designed problem sets and assignments.
  - Solved doubts.

## Winter Schools and Courses

- 2024 **COSCOE, IIT Jodhpur**
  - attended winter school on Computation in Social Choice and Economics in Fair Division

## Seminars and Talks

- Oct 2024 **CMI Student Seminars, Bubbles that Burst: Why Markets Rise, Fall, and Who Comes Out on Top?**  
 Approached bubbles and bank runs from a game theoretic perspective. Main result was based on Moinas, and Pouget 2014
- Feb 2025 **CMI Stems, Rational Roots of Irrational Markets: An introduction to game theory through financial bubbles**  
 An introduction to game theory through finance. Main result was based on Hipsters and the Cool: A Game Theoretic Analysis of Social Identity, Trends and Fads by Golman, Jain and Saraf(2020). We used a Schelling like model modified according to above to give a rational justification for bubble formation. A modification of the October talk.

## Technical Skills

Programming Haskell, C++, Python, R  
 Documentation  $\LaTeX$ , Markdown, Typst