



Cheenta Academy for Olympiad & Research

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Path to Ivy League Program: Olympiad, Research & Leadership

The **Path to Ivy Leagues** is a unique program designed to help students reach the premier universities of the world. Past participants got accepted in **Harvard**, **Stanford**, Cambridge, UPenn to name a few (see examples in the next page).

The programs consists of **three core activities**.

1. **Olympiad** Training for Mathematics, Physics and Computer Science. Starts in Class 1. This is a multi-year program suitable for IOQM, American Math Competition.
2. **School Research** program on Mathematical Science culminating in a Paper and / or a product (software or hardware). These projects are usually submitted directly to the university during the application process.
3. **Leadership** program where students participate in small businesses and work on product research and enterprise growth process.

The classes consists of 2 - 8 weekly live online classes, monthly active mentoring session, software access for adaptive practice and growth path monitoring.

Creators

The Path to Ivy League Program is created by experts from Cheenta Academy. Here are some of the leaders.

1. **Dr. Ashani Dasgupta**, PhD from University of Wisconsin, Milwaukee. Published researcher (in leading journals such as Journal of Topology)
2. **Dr. Sourayan Banerjee**, PhD from IISER Bhopal. Researcher at IIT Kanpur
3. **Srijit Mukherjee**, BStat, MStat from ISI Kolkata, Doctoral Scholar at Pennsylvania State University
4. **Dr. Anirban Majumdar**, BS-MS from Chennai Mathematical Institute, PhD from University of Paris-Saclay.

Past Success Stories

Cheenta has been training students for Olympiad and School Research since 2010. Thousands of Cheenta students succeeded in the national and international level olympiads. Hundreds of our students are in the premier universities of the world. Here are some of the examples from recent years. The links leads to the video talks by the students.

1. **Aryan Kalia**, joined University of **Harvard University**. [Watch](#).
2. **Gunjan Aggarwal**, joined **Cambridge University**. [Watch](#).
3. **Anika Chopra**, joined **Stanford University**. [Watch](#).
4. **Anushka Aggarwal**, joined **Massachusetts Institute of Technology**. [Watch](#).

About School Research Program

Cheenta school research programs are of two types: short programs that are 6 month long and long programs that are 12 - 18 months long. They typically culminate in a collaborative academic paper and / or a product (software or hardware). Usually students in Grade 9 or above participate in the program. There is a stringent screening process and usually students with olympiad experience are given a preference.

Here are examples of past research projects.

1. Efficacy of **Elliptic Curve Cryptography** - A Comparative Analysis with RSA by Vethathiriyen (Singapore, Grade 9), Souradip Das (India, Grade 11). [Watch](#).
2. Enhancing Optimization and Accuracy in Robotic Surgery through Advanced **Geometric Techniques and Deep Learning** by Raghav Mukhija (India, Grade 9) & Arnav Tayal (India, Grade 10). [Watch](#).
3. **Epidemiological Modelling** and Outbreak Prediction using Hyperbolic Geometry by Raghav Pai (India, Grade 11) & Shreyas Vivek (UAE, Grade 11). [Watch](#).
4. Optimising **Urban Accessibility**: Constructing a 15-Minute City Using a Steiner Tree by Prisha Shrimali (USA, Grade 10). [Watch](#).
5. Evaluation of Hybrid CNN Models for **Binary Brain MRI Classification** by Ahan bhowmick (USA, Grade 9), Aniruddh Maheshwari (USA, Grade 9). [Watch](#).

About School Olympiad Program

Cheenta Olympiad Programs are directed towards students passionate about mathematical sciences. There are three primary programs.

1. Math Olympiad Program. Starts in Grade 1
2. Physics Olympiad and Science Fair Program. Starts in Grade 6
3. Computer Science and Informatics Olympiad Program. Starts in Grade 4.

Read more about program details and **book suggestions** in [this document](#).

Each program consists of live online classes, online adaptive practice problem sets, and monthly active mentoring sessions.

How to Get Started with Path to Ivy League Program?

For Schools

Schools may connect with Cheenta Team at helpdesk@cheenta.com or via Business Whatsapp at +1 414 220 0191.

There are customized programs for school that are completely online or hybrid in nature (online + offline).

For Individual Students

Individual students may apply via <https://www.cheenta.com/contact-us/>. They usually attend a Trial Class Process as we have limited seats.

It is possible to take the three programs (Olympiad, Research and Leadership) separately.