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Summer Camp
Mathematics of AI

Understand

An 8 - week hybrid camp hosted at Cheenta Academy for Olympiad & Research.

It consists of two weekly live sessions (2 hours pers session):

- Mathematical Background for Neural Networks (Linear Algebra and Vector Calculus)
- Applications of Neural Networks in Research

Cohort 1
17th May to 17th July 2025

Cohort 2
17th June to 17th August 2025

Class Timing Option 1
Saturday and Sunday 6 AM IST

Class Timing Option 2
Saturday and Sunday 11 AM IST

Location: Students may attend online or offline in Kolkata

Course Fee: Rs. 19470

Mentors

Dr. Ashani Dasgupta

PhD in Mathematics from University of Wisconsin-Milwaukee.

Published research in London Mathematical Society's Journal of Topology.

Raghunath J V

B.Tech and M.Tech from IIT Chennai. Math Olympiad Coach at Cheenta. INMO and IMO Trainer.

Srijit Mukherjee

Doctoral Scholar at Pennsylvania State University.

BStat and MStat from Indian Statistical Institute

Shayeef Murshid

B.Math & M.Math, Indian Statistical Institute

INMO Merit List
Doctoral Scholar at Indian Statistical Institute

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www.cheenta.com

Math for Neural Networks

Research Focus

Understand the Summer Camp

Artificial Intelligence is changing the way we do mathematical science, art, design and many other modern vocations. In the 2025 summer camp at Cheenta Academy we build the mathematical foundation of this fascinating tool.

In particular, we explore how to build neural networks "by hand", understand Linear Algebra and Vector Calculus needed to build a solid foundation in the subject and explore research projects that use this tool.

Eligibility
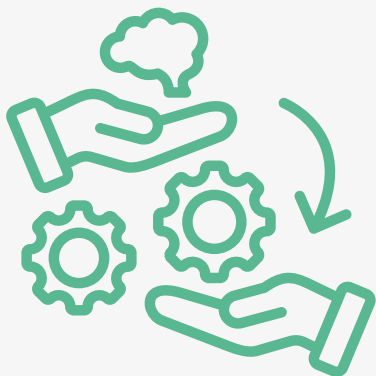
Senior: Grade 9 & above
Junior: Grades 6 to 8

Background in school algebra is expected. Though calculus is not a pre-requisite for seniors, it is useful know fundamentals of the subject.

Prospects → Path to Ivy League

The Summer Camp is useful for students interested in research projects at a later stage.

Research at school can be a very effective multi-disciplinary learning process. It is also useful for Ivy League calibre University applications.

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