# **Ishank Agrawal**

#### **EDUCATION**

Massachusetts Institute of Technology (MIT) September 2022 - May 2025
Undergraduate SB degree.

GPA 5.0
Coursework:

Non-Asymptotic Statistics Stochastic Processes Inference and information Theory Deep Learning Quantitative Methods in Natural Language Processing Tiny ML and Efficient Computing Software Performance Engineering Operating Systems Computation Structures Applied Cryptography and Cybersecurity Design and Analysis of Algorithms

## **WORK EXPERIENCE**

Quant Research Intern.

Alpha research on index options (NIFTY BANK). Utilized shallow neural networks incorporating volatility into models and proposed novel methods for options comparison. Several models incorporated into production.

## **RESEARCH**

#### **PROJECTS**

# **TEACHING**

MIT 6.S095 Intermediate Probability Problem Solving January 2024
Instructor for Advanced Track, over IAP 2024

## **OLYMPIADS**

- IPHO USA Team Alternate 2021
- Indian IMO Training Camp 2019
   Top 30 in INMO
- USA IPhO Training Camp 2021 Top 30 in USAPhO
- USAMO 2021 Top 25

# **AWARDS**

- Asian Pacific Mathematical Olympiad Bronze
- Online Physics Olympiad 2021 Gold
- IF Sharygin Geometry Olympiad Awardee
- Sir Issac Newton 18th in the world
- JEE Advanced All India Rank 333
- William Lowell Putnam Competition 2022 Top 500

### **SKILLS**

**Technical Skills:** ML (PyTorch, Tensorflow), performance engineering, operating systems, C/C++, Python,

Languages: English (native), Hindi (native), Spanish (intermediate)

**Hobbies:** Poker, dance, running, basketball