

Ishaan Arora

Tustin, CA | [linkedin.com/in/ishaanarora25/](https://www.linkedin.com/in/ishaanarora25/) | ishaanarora2510@gmail.com | ishaanarora25.github.io/

EDUCATION

Tufts University

Medford, MA

B.S., Summa Cum Laude, Computer Science and Quantitative Economics

May 2024

Relevant Courses: Data Structures, Machine Structure & Assembly Language Programming, Intro to ML & Data Mining, Web Programming, Algorithms, Programming Languages; Linear Algebra, Discrete Math

SKILLS

Programming Languages: Python (Proficient), C/C++ (Proficient), JavaScript (Intermediate)

EXPERIENCE

HomebaseDAO

New York City, NY

AI/ML Software Development Intern (Remote)

July 2023 - May 2024

- Trained and tested a Random Forest model with 0.87 AUROC to forecast user engagement using sklearn
- Created an AWS SageMaker endpoint to predict investing likelihood of 2000 users in real time
- Optimized data pipelines which improved the runtime of Glue ETL processes by 10%
- Led weekly goal review and biweekly sprint planning meetings for a team of 4
- Interviewed over 10 candidates for the role of Software Engineering Intern

Tufts University

Medford, MA

Course Assistant (CA)

August 2023 - May 2024

- Worked as a course assistant for Web Programming and Programming Languages courses
- Graded an assignment a week and conducted office hours twice a week for classes of ~130
- Helped ~5 students a week with concerns related to course concepts, code design, and debugging

NITI Aayog

New Delhi, India

Economics and Finance Intern

August - October 2022

- Proposed and completed a research project into the legal frameworks of financial data transfer in India
- Presented findings to a committee of 6 mentors, including the head of the Economics and Finance dept.

PROJECTS

Black-Scholes Options Pricer

November 2024

- Developed an interactive web app to calculate option prices using the Black-Scholes model using Python
- Implemented functionality to fetch current stock prices and plot graphs depicting historical returns

Movie Reviews Sentiment Analysis

December 2022

- Trained logistic regression and neural network models to classify sentiments of 1-sentence reviews
- Conducted iterative hyper-parameter tuning, and obtained a model with 89% probability of correctly identifying positive results

Arith

October 2022

- Designed and implemented a 98% lossless compressor and decompressor for PPM images in C

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Quantum Horizons Blog

Medford, MA

Blogger

March 2024 - Present

- Wrote blogs on quantum options pricing models and Quantum Generative Adversarial Networks
- Featured on the Tufts Quantum Information Systems Blog: tuftsqis.wordpress.com

Legalese

New Delhi, India

Founder

January 2019 - May 2020

- Founded Legalese to foster legal literacy amongst the working class in India
- Mentored 150 underprivileged people aspiring to join the work force in Gurugram, India
- Created 15 pamphlets on employment laws in partnership with SMILE Foundation and ProBono India

Iris (Social welfare platform - concept)

New Delhi, India

Team Leader

September - November 2018

- Created, developed, and pitched an alpha version of the Iris platform to a forum of 20 venture capitalists
- Led a team of 4 to the Semi Finals of the Young Founders Summit, Singapore