

Ishaan Goel

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SUMMARY

Applied Mathematics and Artificial Intelligence Dual Degree freshman student. Multicultural and multilingual. Keen interest in Generative and Applied AI. Seeking Computer Science internship to support business practitioners in research and application development to expand company growth.

Interests: Mathematics, AI, Linguistics/Languages, World Cultures, Electronic Music Composition

Lived In: Washington, D.C.; Hong Kong S.A.R.; Dubai, U.A.E.

EDUCATION

Illinois Institute of Technology

B.S. Applied Mathematics; GPA: 3.50/4.00

B.S. Artificial Intelligence; GPA: 4.00/4.00

Chicago, Illinois

Aug 2022 – May 2026 (Expected)

Aug 2022 – May 2026 (Expected)

Dubai American Academy

International Baccalaureate Diploma

Dubai, United Arab Emirates

Sep 2020 – Jun 2022

- **Higher Level:** Math Analysis & Approaches, Information Technology in a Global Society, Physics
- **Standard Level:** Music, Spanish B, English Language & Literature

COURSEWORK

Semester 1: Multivariate and Vector Calculus, Introduction to Profession (Mathematics), Object Oriented Programming I, Introduction to Science and Technology Studies, Introduction to Business

Semester 2: Introduction to Mathematical Modeling, Introduction to Discrete Math, Elementary Linear Algebra, Ordinary Differential Equations and Dynamical Systems, Accelerated Introduction to Computer Science, Principles of Economics

Semester 3: Real Analysis, Applied Algebra, Combinatorics, Probability, Data Structures and Algorithms, Language Theory in Natural Language Processing

Semester 4 (*tentative*): Introduction to Computational Mathematics, Introduction to Stochastic Processes, Partial Differential Equations, Introduction to Algorithms, Artificial Intelligence Language Understanding, Introduction to Quantum Computing

SKILLS

Programming & Software: Python, R, Julia, Java, \LaTeX , RegEx; Photoshop, Illustrator

Languages/Cultures: *Fluent:* English, Hindi-Urdu, Mandarin Chinese; *Intermediate:* Spanish, Arabic

CERTIFICATES

DataCamp

Data Manipulation in Julia

Sep 2023

Intermediate Julia

Sep 2023

Introduction to Data Visualization with Julia

Sep 2023

Introduction to Julia

Sep 2023

Codecademy

Analyze Data with R Skill Path

May 2023

Learn Java Course

May 2023

Responsive Design

Apr 2018

ORGANIZATIONS

Machine Learning at Illinois Institute of Technology (ML@IIT)

Aug 2022 – Present

President

- Network with and learn from the practitioners about the ongoing research in and application of Mathematics and CS to engineering, industry, science, and society in solving real-world challenges.

Society of Industrial and Applied Mathematics (SIAM) IIT Chapter

Aug 2022 – Present

Vice President

- Network with and learn from the practitioners about the ongoing research in and application of Mathematics and CS to engineering, industry, science, and society in solving real-world challenges.

AI Impact Club at Dubai American Academy

Jan 2020 – Jun 2022

Founder & President

PROJECTS

Erdős Co-authorship Network

Feb 2023 – May 2023

- Developed a co-author network, influence measures and an algorithm to study a research paper's influence on contemporary and future research.
- **Project Objectives:** learn about Network Science - How to: **i)** Measure influence in a given network and **ii)** Identify and Extract relevant network influence data.

IB Extended Essay – ITGS

Mar 2021 – Jan 2022

- **Title:** Can Natural Language Processing be used to preserve minority, regional and oppressed languages given the lack of data?
- **Project Objectives:** **i)** learn about the IT systems involved, their current and potential applications to this research topic, and the social and ethical issues that need to be considered in such applications, **ii)** investigate what global companies like Google, Microsoft, and Facebook are doing in this space, the challenges and limitations of the solutions/models they have developed, and how these models can be leveraged or enhanced to accomplish language preservation, **iii)** explore emerging technologies, how alternative sources of data can be used, and the ethical issues that need to be dealt with in tapping into those data sources.

SCHOLARSHIPS

STEM+ Scholarship

Heald Scholarship