

Ishaan Goel

+1 771-201-7576 | igoeldxb@gmail.com | [linkedin.com/in/igoeldc](https://www.linkedin.com/in/igoeldc) | github.com/igoeldc

SUMMARY

Applied Mathematics and Artificial Intelligence Dual Degree sophomore 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

Chicago, IL

B.S. in Applied Mathematics; GPA: 3.75/4.00

Aug 2022 – Present

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

Aug 2022 – Present

Recipient of the Heald and STEM+ Scholarships

Dubai American Academy

Dubai, U.A.E.

International Baccalaureate Diploma

Aug 2020 – May 2022

RELEVANT COURSEWORK

Multivariate and Vector Calculus, Intro to Mathematical Modeling, Intro to Discrete Math, Elementary Linear Algebra, ODEs and Dynamical Systems, Accelerated Introduction to Computer Science, Real Analysis, Applied Algebra, Combinatorics, Probability, Data Structures and Algorithms

In Progress: Introduction to Computational Mathematics, Introduction to Stochastic Processes, Linear Optimization, Introduction to Artificial Intelligence, Data Mining, Programming Paradigms and Patterns, Technical Communication

EXPERIENCE

Student Assistant to Department Coordinator

Jan 2023 – May 2023

Illinois Institute of Technology, Department of Applied Mathematics

Chicago, IL

- Assisted in the smooth functioning of the Department
- Managed Department technology, restructured registration database, reorganized library, redesigned bulletin boards for better communication, planned admitted student event

LEADERSHIP ROLES

Network with and learn from practitioners about ongoing research in and applications of Mathematics, ML, AI, DS and Computer Science to engineering, industry, science, and society in solving real-world challenges.

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

May 2023 – Present

Vice President, Society for Industrial and Applied Mathematics (SIAM) Chapter at IIT

Dec 2022 – Present

Founder & President, AI Impact Club at Dubai American Academy

Jan 2020 – Jun 2022

PROJECTS

Erdős Co-authorship Network | *Network Theory, Python, BeautifulSoup, pandas*

Feb 2023 – May 2023

- Learned how to: i) measure influence in a given network, and ii) identify and extract relevant network influence data
- Developed a co-author network, determined relevant influence measures and applied them to identify influential co-authors

IB Extended Essay

Mar 2021 – Jan 2022

- Research Topic: Can NLP be used to preserve minority, regional and oppressed languages given the lack of data?
- Learned about relevant IT systems and their social and ethical issues; investigated what global companies are doing, the challenges and limitations of their models, examined how these models can be leveraged to accomplish language preservation; explored emerging technologies and ethical use of alternative sources of data

CERTIFICATES

DataCamp: Data Manipulation in Julia, Intermediate Julia, Introduction to Data Visualization with Julia

Codecademy: Analyze Data with R Skill Path, Learn Java Course

SKILLS

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

Programming: Python, R, Java, Julia, \LaTeX , RegEx

Libraries: NumPy, Matplotlib, pandas, BeautifulSoup, dplyr, ggplot2, caret

Software: Photoshop, Illustrator