

# ANINDRO BHATTACHARYA

Website: <https://ab20cs.github.io> ◇ LinkedIn: <https://www.linkedin.com/in/anindro/>

## EDUCATION

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### University of Toronto

*Honours Bachelor of Science*

Double Major in Computer Science & Molecular Biology, Immunology and Disease

Toronto, ON, Canada

*September 2020 - Present*

## EMPLOYMENT

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### Data Science and Clinical Programming Intern

*AstraZeneca*

September 2022 - Present

Mississauga, ON, Canada

- Collaborating with a global team to build a GPT4-based chatbot that will assist data managers by retrieving information pertinent to their tasks.
- Generating synthetic data to validate scripts used for User Acceptance Testing (UAT).
- Received CatAlyZe Accelerate Award, recognized helping build high-performing, inclusive and diverse teams through my contributions to a pilot project that will improve the way patient laboratory data is recorded in clinical databases

### Introduction to Machine Learning Teaching Assistant

*University of Toronto*

January 2023 - Present

Toronto, ON, Canada

- Held and prepared exercises for weekly tutorial sessions
- Taught both practical and theoretical aspects of machine learning
- Effectively addressed students' inquiries and concerns through class discussion forum and email correspondence
- Graded assignments and exams submitted by over 100 students

## RESEARCH EXPERIENCE

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### Undergraduate Researcher

*Department of Computer Science, University of Toronto*

January 2022 - Present

*Toronto, ON, Canada*

**Supervisors:** Dr. Rahul G. Krishnan & Dr. Tony Yeung

- Evaluated the suboptimality of current machine learning algorithms that perform imputation on missing data
- Leveraging statistical and computational methods to study the spatial organization of fluorescent markers in bone marrow biopsies of patients with acute myeloid leukemia (AML)/myelodysplastic syndromes (MDS).

### Research Intern

*Centre de recherche du Centre hospitalier de l'Université de Montréal (CRCHUM)*

January 2021 - Present

**Supervisor:** Dr. Christopher Rose

- Trained machine learning models on electronic health records of patients diagnosed with cirrhosis at the Centre hospitalier de l'Université de Montréal to diagnose patients with hepatic encephalopathy.

- Developed an algorithm to efficiently calculate the area under the curve of hand-drawn blood pressure graphs (constructed by anesthesiologists during liver transplant surgeries) to extract the mean arterial pressure, reducing processing time by over 90% (compared to manual calculation)

## TECHNICAL CERTIFICATIONS

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Machine Learning	<i>Stanford Online</i>
Deep Learning Specialization	<i>DeepLearning.AI</i>
Inferring Causal Effects from Observational Data	<i>University of Pennsylvania</i>
SQL for Data Science	<i>University of California, Davis</i>

## ACADEMIC AND PROFESSIONAL AWARDS

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AstraZeneca Imaging Collaboratorium Winner	<i>2023</i>
AstraZeneca CatAlyZe Accelerate Award	<i>2022</i>
University of Toronto Dept. of Computer Science Summer Research Trainee Stipend	<i>2022</i>
University of Toronto Dean's List	<i>2021-2023</i>
University of Toronto Scarborough Renewable Entrance Scholarship	<i>2020-2024</i>
University of Toronto Scholar	<i>2020</i>
National AP Scholar (Canada) Award	<i>2020</i>

## UNIVERSITY INVOLVEMENT

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**Chemistry Aid Centre Director** September 2021 - Present  
*Chemistry Society at the University of Toronto Scarborough* Toronto, ON, Canada

- Leading a team of tutors to facilitate all chemistry tutoring services on campus
- Held weekly tutoring sessions and exam review sessions for first-year general chemistry and second-year organic chemistry students

**President** September 2020 - Present  
*Symbiosis Biology Journal Club* Toronto, ON, Canada

- Promoting academic literacy by distilling findings from ongoing research in the biological sciences into articles that are engaging, easy to read and accessible for everyone

## COMMUNITY INVOLVEMENT

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**Food Bank Volunteer** May 2022 - Present  
*Markham Food Bank* Markham, ON, Canada

- Distributed groceries to families suffering from food insecurity, fostered a safe and positive environment through compassionate conversations with clients

**Vision Mate Volunteer** October 2021 - April 2022  
*Canadian National Institute for the Blind (CNIB)* Toronto, ON, Canada (Remote)

- Engaged in friendly conversations with individuals who are blind or partially sighted to help combat the negative ramifications that isolation can have on Canadians with sight loss