

# Pranjal K. Bajaria

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## EDUCATION

**Bachelor of Science, Hons.,** Univesity of Toronto, cGPA: 3.86/4.00 **2019 — 2023 (Expected)**  
• Computer Science Specialist(Focus in Artificial Intelligence and Computer Systems) and a Data Science Specialist

## TECHNICAL SKILLS

**Programming Languages | Python, Java, C, C++, JavaScript(Familiar)**

**Frontend | HTML, CSS, Bootstrap**

**Machine Learning and data Science | Numpy, Pandas, Matplotlib, Seaborn, Pytorch, Tensorflow, IBM Watson, AWS**

## WORK EXPERIENCE

**Research Assistant** **April 2021 — Ongoing**  
Department of Computer Science, University of Toronto ON, Toronto

- Working as a research assistant on '**Social Network Analysis on Stigmatizing Tweets Related to COVID-19 (with Prof. Ishtiaque Ahmed, University of Toronto)**', a research project that aims to detect stigma against asian communities(due to the COVID-19 pandemic) on popular social media sites.
- Worked on a dataset of **650+ million tweets** and used various traditional ML models like Naive Bayes, SVMs, Decision Trees, Random Forests along with ensemble techniques like boosting and bagging to create classifiers for the research task. Also working on a custom BERT-based deep learning model to produce a more robust classifier.

**Project Lead** **July 2021 — Present**  
University of Toronto Student Engagement Awards ON, Toronto

- **Leading a project team of 7 students** in working on a project that aims to combat the spread of misinformation on twitter by identifying communities that are prone to misinformation using deep learning and generating awareness through workshops among said communities. The project is funded by **UofT Student Engagement Awards**.

**Instructor and Team Lead** **December 2020 — Ongoing**  
LearnAi in Africa, AiCommons ON, Toronto

- Helped in creating a curriculum in basic machine learning concepts and taught it to over 200+ students from Kenya, Ghana, Nigeria, Algeria and Mexico in collaboration with AiCommons, McGill University, and University of Toronto.

## PROJECTS

**Musical Style Transfer using CNNs** **October 2020 — February 2021**  
• Created a deep learing model that transfers the style of a song to that of another song using CNNs and spectrograms of the audio files. Python's librosa and Tensorflow libraries were used to achieve this .[Code]

**Conference Client** **September 2020 — January 2021**  
• Made a conference client in **Java with an interactive Java Swing GUI** in a team of 6 colleagues using best practices like **SOLID architecture** and various design patterns like **MVP, Factory, Builder and Facade design patterns**. [Code]

**DoodleJump Game** **October 2020 — December 2021**  
• Made a scaled down version of the popular doodle jump game in **Assembly langage** on MARS MIPS simulator.

## EXTRACURRICULAR AND VOLUNTEER EXPERIENCE

**General Executive at UofT AI** **September 2020 — Ongoing**  
• Contributed to the organization of an international machine learning competition with over 100 students from teams from the top 25 universities in North America (Stanford, MIT, Carnegie Mellon, UC Berkeley, etc.) with a budget of \$100,000 and partnerships with Google AI, IBM, DeepMind etc

**Project Director at University of Toronto Machine Intelligence Student Team** **October 2020 — February 2021**  
• Managed a team of 5 students in creating a program that uses Neural Style Transfer to transfer the style of a piece of music to that of another piece.

## AWARDS & HONORS

- **Dean's List Scholar | University of Toronto** **2019-2020, 2020-2021**
- **Louis Rosenfeld Scholarship | University College** **2019, 2020**
- **Reuben Wells Leonard Scholarship | University of Toronto** **2020 — 2021**