

Brenda Namuhoranye

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GitHub: <https://github.com/BrendaNamuh> • <https://brendanamuh.github.io/personal-website/>

Education

Bachelor of Arts and Science, McGill University, Montreal, QC, Canada.

Sept. 2019- Dec. 2022

- Major: Honours Cognitive Science, concentration in Computer Science
- Minor: Computer Science

Diplôme d'études collégiales, Dawson College, Montréal, QC, Canada

Sept. 2017 - May 2019

- Program: Pure & Applied Science
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Work Experience

The Canadian Press

Mar. 2023 - Present

Software Engineer

- Developing software components to support news delivery and content management applications using Python, AWS, MongoDB, Angular, and REST APIs.
- Integrating external codebases into core systems, including SFU's Gender Gap Tracker to monitor gender representation across published articles.
- Conducting data analysis for journalists, including analyzing court transcripts to support journalistic reports.

AI4Good Lab

May 2023 - June 2023

Machine Learning Fellow

- Collaborated with team to develop "Hide-It," a machine learning Chrome extension designed to detect and hide triggering content on Reddit.
- Presented the product during Demo Day to stakeholders and fellow participants.
- Engaged in conferences and machine learning workshops led by industry and academic experts throughout the 6-week program.

Bagot Behavioural Neurogenomics Lab

Sept. 2021 - May 2022

Undergraduate Researcher

- Analyzed fiber-photometry and behavioural data to investigate the integration of outcomes over time in reward learning.
- Extensive use of Pandas, NumPy, Seaborn python libraries
- Summarized findings in honours thesis paper

Extracurriculars

CSUS Helpdesk, McGill University

Jan. 2023 - Apr. 2023

Tutor

- Answer drop-in questions regarding assignments and course material
- Review and help debug students' code

Cognitive Circuits, Undergraduate Research Journal at McGill

Sept. 2022 - Apr. 2023

Editor

- Edit undergraduate research papers concerning, computer science, neuroscience, psychology, linguistics, and philosophy
- Interview graduate students about their research in these fields

McGill Biomechanics Club, Wearable Tremor Suppression Glove

Apr. 2022 - Apr. 2023

Captain of Electrical Team

- Oversee operations of electrical team
- Define project timeline, targets, and deliverables with Project Lead
- Lead Inertial Measurement Units (IMU) Selection
- Lead the implementation of adaptive algorithms (WFLC, BMFLC) for tremor modelling (Python)

Girls Who Code, McGill Chapter

Jan. 2022 - Apr. 2022

Facilitator

- Curated an introductory coding curriculum for girls between the ages of 9 - 12
- Prepared presentations showcasing women in STEM

Personal Projects

[Hide-It App \(Python, HTML, CSS\)](#)

- Trained a Support Vector Classifier (SVC) model using scikit-learn to detect distressing reddit content based on user's preferences. Achieved 86% accuracy.
- Implemented a Flask API to serve the model, providing scalable and secure access.
- Developed the front end of the chrome extension using HTML, CSS, Javascript.

[Visual ML Demo \(JavaScript \[d3.js\], Python, HTML, CSS\)](#)

- Developed a web application to visualize fundamental machine learning models, including Linear Regression and Support Vector Machine (SVM).
- Wrote Python script that generates weights and costs per epoch for each model

[YouTube Data Analysis \(Python\)](#)

- Queried YouTube API for data concerning my account
- Formatted data and extracted relevant information (most liked channel, least viewed video, liked, most viewed video liked etc.)
- Created an animated bar chart showcasing the history of liked videos.

Skills/Interests

- Programming languages (in order of proficiency): Python, Java, SQL, JavaScript, CSS, HTML
- Frameworks (in order of proficiency): Angular, React
- Bilingual (English and French)
- Interests: Software Engineering, Computational Neuroscience, Machine Learning