

Tyra David



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EDUCATION

McGill University – Desautels Faculty of Management, Montreal, Canada

2019 - 2021

Bachelor of Commerce, Business Analytics and Information Systems, CGPA: 3.97/4.00

- *Relevant Courses:* Data Mining for Business Analytics, Data Handling & Coding, Statistical Foundations of Data Analytics, Advanced Business Statistics, Foundations of Decision Analytics, Business Intelligence & Data Analytics, Systems Analysis & Modelling, Design & Design Thinking

McGill University – Faculty of Engineering, Montreal, Canada

2018 - 2019

Bachelor of Engineering, Major in Mechanical Engineering, CGPA: 3.97/4.00

Awards:

- Golden Key International Honour Society for top 15% of the academic program
- Faculty of Engineering Scholarship for students in the top 5% of the faculty
- Dean's Honour List for top 10% of the faculty
Abe & Jennie Brock Award to a student in Mech. Eng

WORK EXPERIENCE

YMCA Cartierville & YMCA du Parc, Montreal, Canada

May 2019 - Present

National Lifeguard Instructor, Lifesaving Instructor & First Aid Instructor

- Designed and communicated creative, adapted lessons and workshops for groups of 12 candidates, expanding their comprehension and interaction
- Identified underlying concerns with candidate comprehension, provided personalized feedback, and made inclusive, objective, evidence-based decisions aligned with class values, generating a high candidate success rate (100% in National Lifeguard)

Dollard-des-Ormeaux Aquatic Association, Dollard-des-Ormeaux, Canada

June 2016 - April 2019

Aquatic Supervisor, Lifesaving Instructor

- Collaborated in a team of supervisors to manage group dynamics and train 50 employees by demonstrating leadership and mentorship to enhance mastery of skills
- Made managerial decisions to ensure a positive customer service experience and resolve conflict, maximizing customer enjoyment while minimizing risk of injury

Vanier College, Montreal, Canada

January 2018 - May 2018

- *Probability and Statistics In-Class Teaching Assistant/English Second Language Peer Teacher:* Coached and assisted 40 students in the completion of their assignments and final science graduation project by simplifying concepts, while working under the professor's guidance

LEADERSHIP AND EXTRACURRICULAR

McGill University, Montreal, Canada

September 2019 - Present

- *McGill Artificial Intelligence Society:* Selected from 100 applicants to participate in Accelerated Introduction to Machine Learning, an intensive, 10-week bootcamp which teaches ML through lectures, assignments, and a final project presented at McGill AI Project Fair
- *Desautels Management Leadership Seminar:* Participant in a 24-hour strategy case competition with the goal of solving a sustainability business challenge and presenting findings in front of a panel of judges.
- *McGill Symphonic Band Club:* Plays clarinet in a high-level, extra-curricular orchestra and assists the team in the organization of fundraisers

Concordia University, Montreal, Canada

September 2019 - Present

- *John Molson Supply Chain and Business Tech Assoc.:* Participant of Python and R workshops, Supply Chain and Project Management panels, Huawei's "Data, Operations, & Technology" Conference, providing me with hands-on skills and insight into the business technology industry

Lifesaving Society, Montreal, Canada

December 2017 - Present

- Volunteers to evaluate future Canadian National Lifeguards, certifying candidates to assume the role as a lifesaver to prevent water-related incidents
- Recruits several volunteers and holds workshops for the public to promote and educate on water safety as a part of National Drowning Prevention Week

PROJECTS

Urban Street Scenes Object Detection (CNN Object detection)

McGill Artificial Intelligence Society

- This project used Single Shot Detector CNN model to create an object detection web application that inputs an image of an outdoor urban street scenes and outputs class names and bounded boxes around vehicles, road, building and people. This model was made using Tensorflow2 API, Flask, and HTML.

Yelp Review Value (Naïve Bayes and NLP)

McGill University

- This model, based on NLP techniques and Naïve Bayes, takes as input a user review from Yelp and can calculate the probability of the review being valuable and thus recommend certain words that can be used to improve the value of the restaurant review.

Phishing Websites (Statistical data exploration, PCA and Gradient Boosting Classifier)

McGill University

- This classification model detects phishing websites from legitimate websites using the various features of a website's URL. This model, that can ultimately create public awareness on Internet safety, was created by conducting a statistical analysis of features, including PCA, and then training a Gradient Boosting classifier.

SKILLS AND INTERESTS

Language Skills: Fluent English and French, written and oral

Computer Skills: Python, R, MySQL, MS Power BI, Tableau, MS Project, Advanced Excel, MS Office, Figma

Libraries: Pandas, Tensorflow, Keras, NumPy, Scikit-learn, Matplotlib, Seaborn, ggplot2 (R)

Interests: Instrument playing: Clarinet, Piano, Kayaking, Hiking, Biking, Swimming, Baking, Painting