MY DUC TRAN

EMPLOYMENT

Okta Inc — Toronto, ON
Software Engineer Intern (Full Stack) — May 2022 to Aug. 2022

- Developed an end-to-end platform for app catalog editor additions in ISV Portal.
- Implemented a new UI component with Quick Search API.
- Improved the current workflow from one per week update to hourly update.
- Tech: Java, DropWizard, Backbone.js, REST API, My SQL, Agile, Jira, Git

DRW Holdings, LLC (NDA) — Montreal, QC
Software Developer Intern — May 2021 to Aug. 2021

- Built NLP model for automated Trading Simulator in New Flow Team.
- Tech: Tensorflow, Kedro, Docker and Ray

PROJECTS

Empirical Assets Pricing via Machine Learning — Sept. 2021

- Study the relationship between stock index factors and the corresponding premium stock return over time using regression and machine learning models.
- Proved that linear regression with Huber Loss outperformed Neural Network and achieved state-of-the-art test error at around 2%.
- Supervisor: Prof Yi Yang, McGill University

AI 4 Good Lab — Apr. 2021

- Used Logistics Regression and SGD Classifier model to predict Autoimmune Disease flare-up in that day based on user data
- Worked on React app to gather user data about food, weather, exercise time, etc...

MNIST Digit Recognizer — Dec. 2020

- Built a classic **CNN model** to recognize handwritten digit with an accuracy of **99.7%, top 100 in Kaggle Competition**.
- Created a web demo for the client to predict their handwritten digits or with uploaded images using **Tensorflow and Javascript**.
- demo: mytran2111.github.io/DigitRecognizer_web_demo/

MAIS 202 - Kaggle Competition 1st place — Nov. 2020

- Worked on MNIST problem to find the maximum of multiple digits in 2D images.
- Built **CNN model** and work on **Grid Search CV** and **Data Augmentation** to achieve **accuracy of 97.9%**.
- Wrote final proposal to demonstrate the process and the model architecture.
- source code: MNIST_Max-digits

WEB WHITEBOARD - Code Jam Hackathon 3rd place — Nov. 2020

- Created a virtual whiteboard to reduce the challenge for students to attend online schooling.
- Built website by **Javascript, HTML, CSS and p5.js** for 2D graphics.
- demo: mytran2111.github.io/Code-Jam-2020/

CONFERENCE

Reinforcement Learning and Decision Making (RLDM) 2022 ·
Deep Conservative Reinforcement Learning for Personalization of Mechanical Ventilation Treatment
Flemming Kondrup, Thomas Jiralerspong, Elaine Lau, Nathan de Lara, Jacob Shkrob, My Duc Tran, Doina Precup, Sumana Basu

UofT Artificial Intelligence Conference 2022 ·
Personalizing Mechanical Ventilation using Deep Conservative Reinforcement Learning
Flemming Kondrup, Thomas Jiralerspong, Elaine Lau, Jacob Shkrob, My Duc Tran, Nathan de Lara, Sumana Basu

AWARDS

UofT AI · Project X Machine Learning Competition - Clinical Practice Cohort — Feb. 2022
The winning team of Project X - International AI Conference
"Six McGill Undegrads win UofT international artificial intelligence competition" - The McGill Tribune (March 2022)
"Undergrad team uses machine learning to create a better hospital ventilator " - McGill Reporter (March 2022)

Edward W Beatty Scholarship
Scholarship for top 10% students in Mathematics for all semesters (2019-2021)

Tomlinson Engagement Award for Mentoring — Aug. 2020
Mentor for Linear Algebra I.

Net X Technology Case Competition 2021Honorable Prize Notos Technologies — Mar. 2021
Strategized and implemented a NN model that lengthens drone flight times and saves critical battery life based on weather and wind real-time data.

UK Mathematics Trust · Gold Medal in United Kingdom Senior Mathematical Challenge — Dec. 2018
Invited to first round for British Mathematics Olympiad

Leadership

VP Finance - Competitive Programming at McGill — Apr. 2021

- Managing financial expenses and budget as well as sponsor packages for our events.
- Organized Tech Games, the biggest tech challenge in McGill with 100++ signups.
- Worked with sponsors from IMC, CAE, Deloitte,...

CONTACT

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my-duc-tran-1909/
mytran2111

EDUCATION

McGill University — 2019 to 2023
B.Sc Statistics & Computer Science
Relevant Courses: Data Structure and Algorithms, Stochastics Process, Sampling Method (graduate), Applied Machine Learning (graduate), Functional Programming and Paradigms, Generalized Linear Model (graduate), Statistical Learning
CGPA : 3.96/4.0

SKILLS

PROGRAMMING LANGUAGES

Python
Java
Ocaml
R
HTML
JavaScript
CSS
SQL
C
Hibernate
OpenAPI

ML/AI

Pytorch
Tensorflow
Scikit-learn
Pandas
Numpy
Keras
Kedro
Docker