

MY DUC TRAN

PROJECTS

Research Project: Empirical Assets Pricing via Machine Learning Ongoing research with professor Yi Yang (McGill) and professor Yan Liu (Purdue)	Sept. 2021
AI 4 Good Lab <ul style="list-style-type: none">Used Logistics Regression and SGD Classifier model to predict Autoimmune Disease flare up in the next hour based on user dataWorked on React app to gather user data about food, weather, exercise time, etc...	Apr. 2021
NLP Tweet Disaster Detection <ul style="list-style-type: none">Performed data visualization, data preprocessing and data cleaning.Created NLP Logistics regression and Classifier model to detect tweets about the disaster with an accuracy of 80%.Implemented BERT model with embedding, achieved an accuracy of 82.8%.source code: <code>NLP_tweet_disasters</code>	Dec. 2020
MNIST Digit Recognizer <ul style="list-style-type: none">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: <code>mytran2111.github.io/DigitRecognizer_web_demo/</code>	Dec. 2020
MAIS 202 - Kaggle Competition 1st place <ul style="list-style-type: none">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: <code>MNIST_Max-digits</code>	Nov. 2020
WEB WHITEBOARD - Code Jam Hackathon 3rd place <ul style="list-style-type: none">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: <code>mytran2111.github.io/Code-Jam-2020/</code>	Nov. 2020
CREDIT CARD FRAUD DETECTION <ul style="list-style-type: none">Creating a machine learning model to detect fraud transaction.Determining the Classification method for an imbalanced dataset with over 284,807 transactions and 0.72% fraud.source code: <code>Credit_card_fraud_detection</code>	Jan. 2020

EMPLOYMENT

PwC LLP <i>Cyber Security Associate</i> Work on Endpoint Protection and Data Loss Prevention for our clients	Sept. 2021 to Apr. 2022
DRW Holdings, LLC <i>Software Developer Intern</i> <ul style="list-style-type: none">Working on NLP model for Trading Simulator in New Flow Team.	Montreal, QC May 2021 to Aug. 2021

AWARDS

Edward W Beatty Scholarship Scholarship for top 10% students in Mathematics.	July 2020
Tomlinson Engagement Award for Mentoring Mentor for Linear Algebra I.	Aug. 2020
Net X Technology Case Competition 2021 · Honorable Prize Notos Technologies Strategized and implemented a NN model that lengthens drone flight times and saves critical battery life based on weather and wind real-time data.	Mar. 2021
NP Compete McGill - rank #6 Biggest Competitive Programming Contest at McGill.	Nov. 2020
Gold Medal in United Kingdom Senior Mathematical Challenge Invited to the British Mathematical Olympiads.	Dec. 2018

Leadership

VP External - McGill International Portfolio Challenge (MIPC) <ul style="list-style-type: none">Contacting and supporting 100+ teams registered for the MIPC.Organizing upcoming events for Ice Breaking and Introduction to Case Competition for this summer.	Feb. 2021
VP Finance - Competitive Programming at McGill <ul style="list-style-type: none">Managing financial expense and budget as well as working with sponsorship for our events.	Apr. 2021

CONTACT

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EDUCATION

McGill University 2019 to 2023
B.Sc Statistics & Computer Science
CGPA : 3.95/ 4.0
Relevant courses: Sampling Theory, Stochastic Process, Machine Learning, Algorithms & Data Structures, Competitive Programming.
Science Internship Year 2021-2022

SKILLS

PROGRAMMING LANGUAGES

Python
Java
C
R
HTML
JavaScript
CSS
SQL

ML/AI

Pytorch
tensorflow
scikit-learn
pandas
numpy
keras
kedro
docker

IDE

Visual Studio
Eclipse
Jupyter