XING HAN LU

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EDUCATION

McGill University, B.Sc. in Honours Computer Science — 2017 – 2020

Marianopolis College, DEC in Pure & Applied Science — 2015 – 2017

EXPERIENCE

Plotly, Software Engineering Intern — Summer 2018

- Develop Machine Learning-based Dash apps (Python version of R Shiny)
- Create interactive plots to improve visualization of Deep Learning projects

McGill Surveillance Lab, Research Assistant — June 2017 – Present

- 1st freshman to co-author a paper presented at **AAAI Workshop**
- Presented results of project to professor and PhD/MSc co-workers
- Tested and scaled Machine Learning models to millions of transaction data

PROJECTS

MédIA – Fake news detector (CBC Hackathon)

- Flask website that detects if a news article is fraudulent or legitimate
- Created DNN and LSTM models with 90%+ classification accuracy
- Trained on over 80,000 news articles from CBC

mood.ai – Mental health tracker (Yale Hackathon)

- iPhone app that keeps track of user's mental health
- Predict risk of depression with 80% accuracy
- Sentiment and entities analysis using Google Natural Language API

PUBLICATIONS

Using digital purchasing data to generate public health evidence: Learning unhealthy beverage demand from grocery transaction data

*Hiroshi Mamiya, **Xing Han Lu**, Yu Ma, and David L. Buckeridge*

- Presented at **2018 AAAI Joint Workshop on Health Intelligence**
- 38% model improvement using Deep Neural Networks
- Predict sales of beverages in hundreds of stores with 81% accuracy

ACTIVITIES

Esprit Science, Director — Sept 2017 – Present

- Design and host coding and biology workshops for high school students

McHacks, Organizer — Feb 2018

- Annual coding event with 600+ participants, at McGill University
- Collaborate with sponsors such as Amazon, Deloitte and Google

SKILLS

Numpy
Pandas
Sci-Kit Learn
PostgreSQL
Tensorflow
Keras

PROGRAMMING

Experienced: Python, Java

Learning: C, R, JavaScript

AWARDS

Certificate of Distinction in the Canadian Computing Competition, Senior Edition

1st place at International Management Association's Case Competition 2018

COURSES

Honours Algorithms
Probability Theory
Artificial Intelligence
Software Design (Java)

CERTIFICATIONS

Deep Learning (Coursera)
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