XING HAN LU

xinghanlu.com

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github.com/xhlulu

SUMMARY

Xing Han was a data science intern at Deloitte. Before joining the firm, he also worked as a software developer intern at Plotly, where he had the opportunity to create Dash Cytoscape, an open-sourced library for interactive network visualization in Python. Before that, he was a research intern at the McGill Clinical and Health Informatics lab, where he used Machine Learning to predict the effect of future taxation policies on the ongoing obesity epidemic. He enjoys sharing projects on Kaggle on his free time. His notebooks has been viewed 80k+ times and forked 3k+ times. His highest rank is Kernels Master (23rd out of 100k+ data scientists).

EDUCATION

McGill University

Expected Jan 2021

Honours B.Sc. Computer Science

WORK EXPERIENCE

Deloitte

Data Science Intern

Montreal (May - August 2019)

- Build summarization engine using LSTMs and Transformers-based sentence encoder

Plotly

Software Engineer Intern

Montreal (May - December 2018)

- Developed open-source Deep Learning apps using Tensorflow and scikit-learn

McGill Clinical and Health Informatics

Machine Learning Intern

Montreal (May - August 2017)

- Improved model accuracy by 38% over baselines with novel Neural Networks architecture using Keras

TECHNICAL SKILLS

Programming Python, Git, Java, Ocaml, JavaScript, SQL

Distinctions Kaggle Master (Top 25 out of 100,000+ in the kernels category)

Libraries Numpy, Pandas, Plotly, Scipy, Scikit-Learn, Tensorflow, Keras, Webpack, Selenium, Unittest Courses Artificial Intelligence, Algorithms, Machine Learning, Software Design, Functional Programming

WORK PROJECTS

Dash Cytoscape

pypi.org/project/dash-cytoscape

- Lead end-to-end development of network visualization library using Python and React.js
- Released on PyPi with 4,000+ monthly downloads and used by Microsoft and GitHub
- Closed 40+ pull requests and issues throughout 7 releases using a Kanban project workflow
- Deployed 200+ continuous integration builds using Unit test, Selenium, CircleCI and Percy

Support Vector Machine (SVM) Explorer

github.com/plotly/dash-svm

- Developed a web app for interpreting ML classifiers using Scikit-Learn in Python
- Attracted 15,000 views on social media, code generated 2,000+ monthly visits on GitHub
- Increased number of user parameters by 3x compared to Stanford's SVM demo

Image Processing App

Python

- Decreased overhead image storage by 50% and improved scalability using session-based S3 storage
- Combined recursive stacks and Redis caching to increase serving speed by 300% over front-end storage

Object Detection App

github.com/plotly/dash-object-detection

- Built a web app displaying visualizations of object detection metrics in 10 different videos
- Selected to be presented at Plotly's official gallery with 50000+ monthly visits
- Optimized baseline graph to generate real-time bounding box data using MobileNet in Tensorflow

ACADEMIC PUBLICATIONS

Guiding public health policy by using grocery transaction data to predict demand for unhealthy beverages

AAAI 2019 Workshops

Xing Han Lu, Hiroshi Mamiya, Joseph Vybihal, Yu Ma, David L Buckeridge Using digital purchasing data to generate public health evidence:

Learning unhealthy beverage demand from grocery transaction data

AAAI 2018 Workshops

Hiroshi Mamiya, Xing Han Lu, Yu Ma, David L. Buckeridge (Peer-reviewed: 16399)