
Jizhou Wang

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Academic Profile

Dedicated to technology, computing and striving to achieve personal and educational goals. I am always enthusiastic about teaching myself new skills while helping others and sharing intriguing ideas in life, philosophy and computer science. Recently I have been analyzing and visualizing data from Hockey Games, Online message boards and sequential images using methods of Deep Learning.

Education

University of Montreal (Mila) Graduate Prof. MSc. in Machine Learning	2021 - 2022
McGill University Undergraduate B.Sc. Computer Science & Statistics	2015 - 2019
Varndean College College A-levels (Maths, Physics, Computing), Brighton, UK	2010 - 2012

Achievements and Working Experiences

Hockey Goal Prediction Project University of Montreal https://github.com/Jawing/ift6758-blog-template-main <ul style="list-style-type: none">Performed exploratory data analysis on NHL play-by-play data by building an interactive 2D shot-heatmap using plotly and ipywidget.Built and tested an ensemble of models using sklearn pipeline while tracking experiments and model iteration on comet.mlDeveloped a goal prediction service on flask with docker using the top-performing models based on their ROC-AUC such as XGboost.	September 2021
NaviGaze Code Jam Hackathon https://devpost.com/software/navigreat-hviz0n <ul style="list-style-type: none">Designed a chrome browser extension that automatically generates a table-of-contents from any page and keywords, key sentences from any text selections for text summarization.Developed the backend extractive text summarization model using TextRank algorithm with spaCy and Flask.	November 2019
Toxicity Detection Project McGill <ul style="list-style-type: none">Compared performances across multiple models such as CNN, LSTM, and a lexical model using ROC-AUC metrics for detecting toxicity while reducing biases across different identity subgroups.Worked with state-of-the-art pre-trained transformer models (BERT, GPT) and word embeddings such as word2vec, GloVe.	November 2019
Modified MNist Classification Project McGill <ul style="list-style-type: none">Incrementally tested hyperparameters such as loss functions, optimizers, normalization, dropouts, preprocessing and augmentations (OpenCV) for image classification.Worked with state-of-the-art CNN models (Resnet, EfficientNet) and developed ensembles to further increase classification accuracies.	October 2019
Irrelevant.ai ImplementAI Hackathon https://devpost.com/software/irrelevant-ai <ul style="list-style-type: none">Designed a movie recommendation system with a two-stage supervised learning model from Fast.ai using collaborative filtering and an unsupervised learning model on Scikit-learn with K-means clustering.	September 2019

- Developed an algorithm that lets the user escape the recommendation feedback loop while maintaining a high predictive user rating.

Hotel Database Project | McGill

**January - April
2018**

- Worked in teams to analyze and understand business and user requirements to create a detailed database design model of a hotel.
- Wrote complex queries and functions using SQL and Java languages for applications to interact with the database.

Centre Saint-Antoine 50+ Web Designer | Montreal, QC

**May - August
2017**

- Created a responsive mobile redesign of the website using jQuery, Bootstrap, and AngularJS.
- Improved the accessibility of the UI for the elder clients

Software Engineer Intern Microsoft | Beijing, China

**July - August
2015**

- Maintaining web components and websites for new and existing clients using HTML, CSS, jQuery, Bootstrap, and AngularJS.
- Prototyped “MicroFriends” a social networking app for interns on android/iOS during the Microsoft Hackathon

Competitive Programming: Kaggle, Leetcode

**March 2015 -
Present**

- Currently competing in Kaggle competitions and have reached the top 10% on many leaderboards using state-of-the-art models and methods.
- Solved many programming problems on Leetcode and became efficient with applying data structures and algorithms.

Personal Skills

Language: English (Fluent), Mandarin (Fluent), French (Intermediate), Japanese and Spanish (Beginner).

Computer Language: Python, R, Java, Matlab, HTML/CSS, JavaScript, Git, Bash, MySQL.

Software: Pytorch, Jupyter Notebook, R Studio, Visual Studio Code, Flask, Eclipse.

Communication: Empathetic Communication, Customer Service, Public Speaking, Team Spirit.

Extracurricular Activities

Computer Science: Deep Learning, Natural Language Processing, Computer Vision, and Quantum Computing. Participated in the ImplementAI and CodeJam Hackathon (McGill 2019).

Mathematics: Competed in Competitions such as MathCounts (Winner of Tri-Cities Regional 2009) and UK Senior Mathematical Challenge (Silver award 2011)

Music: Certified Pianist (RCM), Regional competitions (First place WSTMA). Performance on stage (Camerata Musica 2009). Amateur guitarist and rhythm game fanatic.

Sports: Competed in regional competitions for cross country, biking, tennis and table tennis.

Others: Enthusiast in strategy games, linguistics, art, and philosophy.