

# Jizhou Wang

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## Education

<b>University of Montreal &amp; Mila</b>   Graduate Prof. MSc in Machine Learning	<b>2021 - Present</b>
<b>McGill University</b>   Undergraduate BSc in Statistics & Computer Science	<b>2015 - 2019</b>

## Projects and Experiences

<b>Hockey Goal Prediction   University of Montreal</b> <a href="https://github.com/Jawing/ift6758-hockey-blog">https://github.com/Jawing/ift6758-hockey-blog</a> <ul style="list-style-type: none"><li>Performed exploratory data analysis on NHL play-by-play data by building an interactive 2D shot-heatmap using plotly and ipywidget.</li><li>Developed a goal prediction service on flask with docker using the top-performing ensemble models (XGboost) based on their ROC-AUC in comet.ml.</li></ul>	<b>Fall 2021</b>
<b>Navigate   Code Jam Hackathon</b> <a href="https://devpost.com/software/navigreat-hviz0n">https://devpost.com/software/navigreat-hviz0n</a> <ul style="list-style-type: none"><li>Designed a browser extension that generates a table-of-contents from any webpage, text selection using keywords, key sentences for text summarization.</li><li>Developed the backend extractive text summarization model using TextRank algorithm with spaCy and Flask.</li></ul>	<b>2019</b>
<b>Toxicity Detection in Text   McGill</b> <ul style="list-style-type: none"><li>Compared performances across different models such as CNN, LSTM, lexical using ROC-AUC metrics for detecting toxicity while maximizing group fairness across different identity subgroups.</li><li>Worked with pre-trained transformer models (BERT, GPT) and word embeddings such as word2vec, GloVe.</li></ul>	<b>2019</b>
<b>SqueezeNet Reproducibility   McGill</b> <ul style="list-style-type: none"><li>Analysis of SqueezeNet architecture vs AlexNet on CIFAR-10 by ablation while maintaining the model size reduction intended in SqueezeNet.</li></ul>	<b>2019</b>
<b>Modified MNist Classification   McGill</b> <ul style="list-style-type: none"><li>Incrementally tested hyperparameters such as loss functions, optimizers, normalization, dropouts, preprocessing and augmentations (OpenCV) for image classification.</li><li>Worked with state-of-the-art CNN models (Resnet, EfficientNet) and developed ensembles to further increase classification accuracies.</li></ul>	<b>2019</b>
<b>Irrelevant.ai   ImplementAI Hackathon</b> <a href="https://devpost.com/software/irrelevant-ai">https://devpost.com/software/irrelevant-ai</a> <ul style="list-style-type: none"><li>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.</li><li>Developed an algorithm that lets the user escape the recommendation feedback loop while maintaining a high predictive user rating.</li></ul>	<b>2019</b>
<b>Web Designer   Centre Saint-Antoine 50+, Montreal, QC</b> <a href="http://centrestantoine50plus.org/">http://centrestantoine50plus.org/</a>	<b>2017</b>

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

#### **Software Engineer Intern | Microsoft, Beijing, China**

**2015**

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

#### **Skills & Interests**

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**Computer Science:** Meta-Learning, Continual Learning, Natural Language Processing, Computer Vision.

**Software:** Pytorch, Sklearn, NLTK, Git, Plotly, Docker, Flask, Aequis, OpenCV, R Studio, MySQL.

**Language:** English, Mandarin (Fluent), French (Advanced), Japanese, Spanish (Intermediate).

**Communication:** Active Listener, Compassionate Communicator, Team Spirit, Public Speaking.

**Music:** [My Youtube Channel](#), Certified Pianist (RCM), Regional champion (WSTMA). Performance on stage (Camerata Musica 2009). Amateur Jazz composer and rhythm game fanatic.

**Sports:** Cross country and table tennis regional competitor. Passionate figure skater and dancer.

**Others:** Enthusiast in digital art, photography, psychology and philosophy.