

Xuanzhou Chen

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Education

New York University

Brooklyn, NY, US

M.S. in Computer Engineering(Expected)

09/2021-05/2023

Selected Courses: Machine Learning, Data Structure & Algorithm, Deep Learning, Computer System& Architecture

University of Wisconsin Madison

Madison, WI, US

B.Sc. in Mathematics and UCrt. in Computer Sciences

08/2018-12/2020

China Agricultural University

Beijing, China

B.Sc. in Mathematics and Applied Mathematics

08/2016-06/2018

Programming Languages

Java (2 years), Python (1 year)

Project Experience

Resnet-18 improvement on CIFAR10

New York University

Deep Learning Course Team Project Leader

Current Project

1. Built the ResNet-18 network from scratch in Python and Pytorch.
2. Researched on selecting ResNet-18 hyper-parameters (e.g. Residual Layers, & Skip Connection Chnnel) to maximize the network accuracy on CIFAR10 dataset.

Java Game: Bubble Arena

New York University

Java Course Individual Project [\(Link to Game Demo Video\)](#)

11/2021-12/2021

1. Programmed an offline multi-player game in Java from scratch and adopted MVC design pattern as main game structure.
2. Used Property files separately to make the game extension.
3. Utilized Singleton Pattern, Factory Pattern, Template Pattern and other patterns in designing and programming.

Social Media Bots

University of Wisconsin-Madison

Project Main Contributor

03/2020-12/2020

1. Researched the activities and strategies of Twitter bots during Covid-19, and revealed bots influence on users' opinions.
2. Scrapped Twitter keyword data via Python Scrapinghub and performed bot detection through Machine Learning based Botometer.
3. Adopted unsupervised Structural Topic Modeling (STM) and Vector Auto Regression time series analysis to reflect the change in the agenda of news coverage and public conversation.
4. This work has been presented at the 2020 Annual Conference of International Communication Association (ICA).

WebCRA

Amazon Remote

Project Leader

09/2020-11/2020

1. Developed, tested, and deployed a full-stack web application with HTML, JS, JQuery and Flsak, the application automatically fetches, visualizes, searches, and analyzes on-line customer reviews on products.
2. Preprocessed the customer review data, including missing data cleaning, denoising, tokenization and normalization, calculated token frequency distributions, found out the statistically significant different tokens, implemented word cloud to dynamically visualize the data.

Tumor Cell Image Classification

Zhejiang University(Hangzhou,China)

Research Intern

06/2018-08/2018

1. Helped the research team build SVM in MATLAB and VGG 16 with Tensorflow.
2. Tranined the SVM and VGG 16 network on tumor cell image dataset classifications, and compared their accuracies and losses.

Publication

Duan, Z., Lukito, J., Li, J., Chen, X., Shah, D., & Yang, S.(2020). *Bot as Strategic Communicator in the Digital Public Space: Evidence for Algorithmic Agenda-Setting during the COVID-19 Pendemic*. 2020 Annual Conference of International Communication Association (ICA)

Honers

5 grade in The Mathematical Contest in Modeling (MCM), 2018

Dean's list for 3 semesters at UW-Madison