

Wen-Yuh (Ken) Su

Chicago, IL | 0966-107310 | wsu23@uic.edu
linkedin.com/in/suwenyu | github.com/suwenyu

WORK EXPERIENCES

Particle Media Inc., Mountain View, USA May.2019-Aug.2019

Machine Learning Intern [Python, Word2Vec, XGBoost, FastText, Tensorflow]

- Applied embedding similarity features by training word2vec to improve disambiguation of names for US cities and counties with F1 measure of 78.48 percent
- Implemented XGboost model to recommend the news to users living in the related area with accuracy of 90 percent
- Built the data pipeline for the push-notification system with extracted time and action with predicted event type by using SUTime and the dependency parser and resulted in increasing CTR with 10 percent on A/B Test

University of Illinois Chicago, Chicago, USA Mar.2019-May.2019

Research Assistant [Python, TensorFlow, FastText, Word2Vec, LSA]

- Implemented Hierarchical LSTM which combined the word embedding sequence and the clause embedding to achieve high accuracy of 78.6 percent on classification task with 4 labels on Twitter HPV-related articles
- Compared effectiveness of the semantic representation by applying latent semantic analysis, Word2Vec, and FastText on the different level of words in HPV-vaccine-related data

Cathay Financial Holding Co. Ltd., Taipei, Taiwan Aug.2017-May.2018

Machine Learning Intern [Python, Shell Script, Tensorflow, XGBoost]

- Applied Lambdamart model on financial data such as financial behavior of users, truncation record, and customer profiles to find important features
- Implemented the Deep-Wide model to predicted the average variation in the amount of credit card transaction of customers and the features from XGBoost with a high accuracy

CLIP Labs, National Chengchi University, Taipei, Taiwan Aug.2017-May.2018

Research Assistant [Python, C++, JavaScript, Tensorflow, Flask, MongoDB, D3.js, Restful API]

- Emphasized risk detecting for word-level financial reports by training a self-attention LSTM model on the collection of financial reports with financial sentiment phrases, resulting in high accuracy of 88 percent (ICASSP'20, 2nd author)
- Built a labeling system by using Flask framework, JavaScript and MongoDB for users to add annotations of multiword expressions for financial reports with visualization which increased the efficiency of labeling
- Visualized the financial statement by highlighting the strong words which the deep learning model learned

EDUCATION

University of Illinois Chicago, Chicago, USA Aug.2018-May.2020

Master of Science in Computer Science, GPA: 3.50

National Chengchi University, Taipei, Taiwan Sep.2013-Jun.2017

Bachelor of Science in Computer Science, GPA: 3.70

SELECTED PROJECTS

Finance Sites, Taipei, Taiwan [Python, Web Crawler, JavaScript, Sails.js, MySQL, Restful API] Jul.2018-Feb.2019

- Implemented a scheduling crawler and scripts to scrape and extract the data from the financial statement in SEC.gov and Stock data into MySQL database
- Designed a website by using Sails.js MVC framework and displayed the financial data by charts

Digital Humanities Project, Taipei, Taiwan [Python, JavaScript, Flask, MongoDB, Restful API] Feb.2017-Jun.2017

- Improved the digit humanities website into parallel resulted in reducing 20 percent of users' the waiting time
- Implemented the data pipeline and Restful API contribute to the visibility and scalability of the system
- Built visual analysis and charts tools for users to refer the text mining results

Wearther, Taipei, Taiwan [JavaScript, Sails.js, MongoDB, Ajax] Jan.2017-Jun.2017

- Built a website by using Sails.js framework which can recommend the outfit based on the local weather of the user
- Implemented social functions in the website and increase users (<https://github.com/suwenyu/Wearther-sails-js>)