

Wen-Yuh (Ken) Su

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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 an 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>)