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Evan Lin

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Technical Skills

C++, Python, Numpy, Pandas, sklearn, Selenium, Natural Language Processing, Machine Learning
Java, R, Matlab, HTML, CSS, JavaScript, SQL, PHP, Django, Git, ADA, Scheme, Haskell, SML

Experience

Research Assistant - National Taiwan University 2017 - 2018

ML project, NameSex on PyPI, Package to predict gender tendency from a Chinese given name (in Traditional Chinese).

- https://pypi.org/project/namesex
- Collected 10,730 Chinese given names with reliable labels from single-gender high schools' public data.
- Trained a word embedding using Word2Vec algo in gensim on Yahoo News with 87 million Chinese characters.
- Trained predictive models such as K-NN and logistic regression.
- Performed model tuning and validation by k-fold and reached an accuracy of 89.57% on cross validation set.

Software Engineering Intern - Xaduro Inc. 2018 - 2018

SWE intern at a start-up company providing property management systems for hotels, hostels, and B&Bs.

- Utilized JavaScript and PHP for hotels' management system maintenance.
- Programmed room overbooking notification to prevent overbooking from different booking websites.
- Used JavaScript Json for operating data transfer tasks from AsiaYo to Xaduro's database.

Side Projects

Unsupervised Classification for Super Basketball League Players - ML Project 2019 - 2019

Alternative categorization for basketball players rather than traditional categories of guard, forward, and center.

- Collected players' game performance data from the official site of SBL using Python Selenium.
- Conducted data preprocessing, e.g. remove duplicate player data, remove useless columns like birthday.
- Created an additional dataset by weighting players' performance to a same playing time of 25 mins per game.
- Performed dimensionality reduction using Principal Component Analysis , t-SNE, and Linear Discriminant Analysis.
- Applied K-means clustering and hierarchical agglomerative clustering for strategic team formation.

Foxconn Tech. Stock Price Prediction - ML Project 2018 - 2018

Prediction of an increase or a decrease on Foxconn Tech's stock price using online news.

- Collected and categorized the news data in relations to an increase or decrease in stock prices.
- Searched for positive and negative keywords from the news using N-gram (2-gram ~ 6-gram).
- Used the keywords selected through TF-IDF as features of news to fit into various regression algorithms.
- Reached an accuracy of 82% predicting a rise or fall in stock price on cross validation set using k-fold.

Basketball Statistics System - Sports Project 2017 - 2017

- Utilized Django to develop a statistical system for departmental basketball teams at National Taiwan University.
- Team Managers can add/modify/remove players of the team and record players' game performance using a tablet, saving the time of data logging on computers after using pen and paper.

Education

New York University - M.S., Computer Science - GPA 3.9 New York City, NY 2022
National Taiwan University - B.B.A., Information Management - Presidential Academic Award Taipei, Taiwan 2019

- Class Representative, Graduate Representative, Captain of NTUIM's Basketball Team, Softball Varsity Team