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EDUCATION

New York University, New York, USA

2020/09-2022/05

Computer Science, Master of Science

National Taiwan University, Taipei, Taiwan

2015/09-2019/06

Information Management, Bachelor of Business Administration

- Graduate Representative, Class Representative, Vice Coordinator of Orientation Camp
- NTU Softball Varsity Team, Captain of NTUIM Men's Basketball Team
- Presidential Academic Excellence Award (2nd Semester 2017-18), Ranked Third Place in Academic Year 2017-18

PROFESSIONAL EXPERIENCE

ML Project – NameSex on PyPI <https://pypi.org/project/namesex>

2017/08-2018/02

Research Assistant National Taiwan University, Taipei, Taiwan

Package to predict gender tendency from a Chinese given name (in Traditional Chinese).

- Collected 10,730 Chinese given names with reliable labels from single-gender high schools' public data.
- Trained a word embedding using Word2Vec algorithm in gensim on Yahoo Online 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 reach an accuracy of 89.57% on cross validation set.

Web Programming Intern Xaduro Inc, New Taipei, Taiwan

2018/03-2018/06

- Conducted regular website system maintenance to eliminate user experience issues.
- Programmed a room booking notification to prevent overbooking from different sites.
- Operated data transfer from AsiaYo through Json and utilized JS and php for function development.

SELECTED PROJECTS

ML Project - Unsupervised Classification for Super Basketball League Player

2019/06

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 to both dataset.
- Applied K-means clustering and hierarchical agglomerative clustering for strategic team formation.

ML Project - Foxconn Tech. Stock Price Prediction

2018/04

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

- Gathered internet news and history stock prices of Foxconn Technology Group.
- 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 algorithm.
- Utilized k-fold validation to predict the chance of an increase/decrease in stock prices with an accuracy of 82% on cross validation set.

SKILLS

Languages C++, Python, Java, R, Matlab

Web Dev.

HTML, CSS, JavaScript, php, Python(Django), SQL

Python numpy, pandas, sklearn

Git

ML Related Courses

Information Retrieval & Text Mining 、 Statistical Learning: Theory and Application
Big Data & Business Analytics 、 Digital Speech Processing 、 Introduction to FinTech