Chengwei Ye

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OBJECTIVE:

To obtain a Internship or Co-op in Data Science

EDUCATION:

Worcester Polytechnic Institute (WPI), Worcester, MA
Master of Science, Data Science, Current GPA: 4.0/4.0 August 2020

Tongji University, Shanghai, China
Bachelor of Engineering in Automation, GPA 4.0/5.0 July 2018

SKILLS:

- Python, R, C, SQL, Hadoop, Spark, Tensorflow, HTML
- Strong Mathematic foundation
- Microsoft (Word, Excel, Powerpoint, Azure), MATLAB, Machine Learning on cloud
- English, Chinese(native)

PROJECTS:

Deep Learning, WPI March – April 2019

- Developed a question-answering system based on SQuAD
- Used Python Tensorflow to build a neural network consisting of BiGRU, Attention, fully connected, and Softmax layers
- Achieved higher F1 and EM scores than a previous baseline model proposed by NLP course of Stanford

Online Competition, Kaggle October – December 2018

- Used renter information, property characteristics and reviews to predict Airbnb rental price
- Used R and python to explore the data, fill null values, encode features and analyze text data
- Trained linear regression, random forest, gradient boosting and various models to significantly improve performance and got the best result with gradient boosting
- Ranked 41st / 406 competitors on public and private leaderboards
- Github: https://github.com/rohame/How-much-for-your-Airbnb

Statistical Methods for Data Science, WPI October – December 2018

- Worked in a group of 4 students to predict popularity of online news (popular-or-not classification), and verify the accuracy provided by a paper
- Used python and R to deal with anomalies, encode features and make prediction
- Trained KNN, random forest, logistic regression and gradient boosting to get a similar accuracy with the original paper, but using different methods

Undergraduate Thesis, Tongji University March – June 2018

- Worked individually to create a capacitance array sensing-display system
- Used C, MATLAB to achieve sensing, communication and display functions
- Created a system detecting and measuring pressure on the capacitance array and real time display
- Decided the topic, designed system structure, selected methods, solved problems, delivered presentation, and wrote the thesis