

Lanqing Yang

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Academic Background

- Academic Performance : GPA 3.73/4.0 , 2th in major
- English : excellent in CET4(569) ,CET6(452) ,talented at Reading and Writing
- Scholarship : win the National Endeavor Fellowship twice in 2014.12、 2015.12
- Professional Skills : familiar with Matlab,major in C,C++ ,average in python,php
- Mathematic :in addition to Advanced Math , also boast knowledge of Mathematical Modeling, Mathematical Experiment, etc.

Scientific Research

SundataGroup Laboratory Public Opinion Analysis System 2015.10– 2016.6

- Project aimed at BBS, blogs, and other platforms of 13 universities in Sichuan, consists of data collection, data storing, data analysis and data visualization.
- Along with other 5 members in data analysis group, make analysis of data collected from varieties of platforms, mainly topic extraction and topic track, and topic trend prediction.
- Systematically learned about varieties of algorithms in data mining and machine learning, such as classification and clustering.
- Further understanding of NLP, such as transforming data into vectors (TF-IDF and Word2Vector), topic clustering (K-means and LDA), time series analysis (DTW and Neutral Network).
- Learn about the overall process of big data processing, such as spiders like Web Crawler; big data platforms like Hadoop ,Spark, MapReduce, Nosql Database; data analysis tools like Mahout, and data visualization such as Nvd3 and d3.js.

SundataGroup Laboratory Stock Predicting Project 2015.07-2015.08

- Project aim for application of several algorithms of machine learning, in order to predict the future prices of certain stocks, with another classmate.
- Project' s progress consists of data preprocessing, data analysis and data visualization.
- Responsible for the implementation of the learning algorithm and the data visualization on the website.
- Use of MATLAB, octave, python (web design by me using PHP, JS ,etc.)
- Have a better grasp of machine learning, especially Neutral Network and various regression methods in stock prediction, during the project.
- Frequently consult ambitious developers and programmer on the GitHub, GoogleCode, StackOverflow, which benefits my English much.

Competition & Project

The National College Student Information Security Contest 2015.12 – 2016.6

- Along with 3 team members, designed the project named Smart Wrist Watch based on Hemimorphic Encryption and Sound Transformation.
- Responsible for coding, team communication, and market research.
- Experience the whole process of data generating, market research, coding and presentation, also the travel of scientific research.
- Better understanding of the Hemimorphic Encryption, Cloud Security, Communication Protocol and Cipher Algorithm.

Ali Tianchi Big Data Contest (Enter the final) 2015.09-2015.12

- A micro-blog forecast contest aims to predict user actions, based on the big data of their history records.
- With other 2 team members, responsible for the algorithm design, analysis and parameter adjustment.
- Fully responsible for the main work at first round of contest, Matlab analysis.
- Complete the process of model training and prediction at the second round of contest and the final design algorithm on cloud platform.
- Gain a better understanding of machine learning' s methodologies and applications, and learn teamwork skills during the actual processing ten-millions of data.

Mathematical Modeling Contest(Excellence Award in school) 2015.5.29 – 6.1

- With 2 classmates, mainly responsible for Matlab coding and algorithm design.
- Day and night for 72 hours, experiencing the complete process: analysis of a problem - the modeling of problem - experimental mathematical method - coding to achieve - writing of document.
- Realize that the mathematical modeling and machine learning share a lot of similarities, for example: data preprocessing, time series analysis, model evaluation, principal component analysis method, the transformation of data into vector, etc.

Other Experiences

- Expression and communication: served as study commissioner, participated in the English speech contest, and several times of leader of a group
- Training and skills: participate in the web development engineering class, the big data engineering classes.
- Overall time in school laboratory up to a year.