

Xiang (Alex) Li

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SUMMARY

Technical skills: advanced knowledge in statistics specialized in regression, classifier, cluster, categorical analysis and multivariable analysis. Some related computer science such as graph algorithms and data structure.

Experience: built various models and hypotheses based on real life application data.

Personal: talented in mathematics, logical deduction, and critical thinking; good at imitation.

EDUCATION AND HONOR

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| Master in Statistics, Rutgers University, New Brunswick, NJ | 09/2012-10/2014 |
| Bachelor in Statistics, Peking University, Beijing, China | 09/2008-07/2012 |
| Second prize in Chinese Mathematical Olympiad nationwide competition | 2008 |

SKILLS

Programming languages: R, C++, SAS, python, MYSQL, hadoop, Java, lua

Documents: Microsoft office (Word, PowerPoint, Excel, Access),

Computer environments: Windows. Linux (Shell script)

COURSE-PROJECTS

- -Built linear regression models (R language) after excluding outliers from data of “*waste of production and land use*” by Cook’s distance, Leverage, DFFIT method, and DFBETA method.
-Identified the appropriate model by CP, AIC and BIC to catch the influencing factors in the data.
- -Applied classifier models on a PC game, to discover the relationship of various variables and the winning probability by logistic regression, SVM, decision tree, and naive Bayes methods respectively.
- -Implemented a cluster model including ward, max, and min distance method to classify consumers, based on the linkage, supplier data and other variables. The distance function was based on the correlation matrix.
- -Designed an experiment to do multiple comparison by Bonferroni-based methods.

EXPERIENCE

- **Data Analyst/Processing Clerk, Canaan Media, Branchburg NJ 08854** **02/2015 to present**
 - Carried out image processing work and trained OCR software to improve the accuracy of recognition.
 - Secured data by completing data base backups and saved data from CRYPTOLOCKER virus.
 - Developed software to automate data processing workflow.
- **Data Analyst Intern, UUsense, Shenzhen, Guangdong, China** **07/2013 to 08/2013**
 - Collected the APP error data, tested whether the data followed Poisson distribution and built a kernel density estimation.
 - Estimated the users’ frequency of taking out their phones, reading or playing games in metro after work and compared to other time intervals.
 - Proposed a hypothesis that the error rate of an input time interval A in a day was more than the rate of another input time interval B. Then constructed a fisher-exact-test model (R language) to test this hypothesis.
 - Applied the test to every single day in recent 3 months, drew the conclusion and created a data visualization.
 - Gave my colleagues a lecture about how to apply the statistics to their works, including making a reason based on the Simpson paradox for asking more data from the clients.
- **Intern, Cinda Securities, Beijing, China** **07/2012**
 - Made a hypothesis and a test that some equities’ prices followed the Brownian motion.
- **Intern, Citibank** **07/2011**
 - Estimated the tendencies of some prices investments by linear models and estimated the risks by standardized variances.
 - Completed linear combination portfolios for an individual based on the estimations above and his willing.
- -Wrote some lua scripts to diy unofficial cards with effects by notepad++ for an open source game software YGOPRO and adjusted its cheating AI scripts occasionally.