Mr. Zhang, Fayou

contact

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programming

♥ R
Python, Matlab
Mathematica

education

| 2012-2015 | **Masters** of Management Science and Engineering | TongJi University |

Overall GPA:86.7/100 Academic Core GPA: 88.7/100
A hybrid approach of DEA, RandomForest and SVM for financial failure prediction
This thesis explored the idea that introducing DEA efficiency as a feature to improve accuracy of predicting cooperation's financial failure. The results shows that efficiency does provide valuable information in financial failure predictions.

| 2003-2007 | **Bachelor** of Material Science and Engineering | Harbin Institute of Technology(HIT) |

experience

| 2014 | **Contest** of Graduate Mathematical Modeling | Tongji University |

Team leader & Model builder
Built an Integer Programming model for loading and unloading process of car carrier in multi-destination situation
Applied branch-and-cut, heuristic algorithms to solve Integer Programming problems

| 2012-2014 | **Research Assistant,** Supply Chain & Industrial Engineering Lab | Tongji University |

Data cleaning, Data filtering and Data transformation for machine learning algorithms
Investigated feature selection via Random Forest and Rough set
Designed a new feature for better prediction accuracy
Studies various machine learning algorithms for better prediction
Applied machine learning algorithms to predict business failure

| 2007-2011 | **JiangSu Subote New materials Co.ltd** | NanJing, JiangSu |

Top 2 Chinese Company In Concrete Admixture
Technical Support & Sales In building Shanghai–Hangzhou High-Speed Railway

skills

Proficient
Algorithms
line search, gradient descent, conjugate descent, quasi-newton methods, simulated annealing, knn, svm, logistic regression
Software
git, latex, lyx

Familiar
Algorithms
BFGS, genetic algorithm, taboo search, random forest, neutral network, bagging and boosting
Software & OS
SQL, linux

certificates

2014	**Data Science**	Johns Hopkins on Coursera
	The Data Scientist's Toolbox	
	R Programming	
	Getting and Cleaning Data	
	Exploratory Data Analysis	
	Reproducible Research	
	Statistical Inference	
	Regression Models	
	Practical Machine Learning	
	Developing Data Products	

courses

2012-2014	**computer science related**	Tongji University
	Modern Optimization In Management Science	
	Numerical Optimization	
	Convex Optimization	
	Management Information System	
	Multivariate Statistics	

awards

2012-2014	**Postgraduate Scholarship**	School of Economics and Management, Tongji University
	Awarded to the top student	

standardized tests

TOEFL: 94 **GRE:** Verbal 153 Math 162 AW 3

interests

professional: data analysis, computer programming **personal:** bridge, running

publications

article in peer-reviewed journal

Reliable supply chain network design under facility disruption and demand uncertainty
W.M.Ma, B.Li, B.Xu, F.Y.Zhang
Systems Engineering – Theory & Practice,Accepted *()*