

# Zhiyuan Fang

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## EDUCATION

### SUSTECH

JUNIOR STUDENT IN COMPUTER SCIENCE

Data Mining and Machine Learning  
ShenZhen, GuangDong, China

Cum GPA: 3.60/4.00

Major GPA: 3.75 / 4.0

Tofel: 96

## COURSEWORK

### UNDERGRADUATE

Data Mining and Data Analysis

Operating Systems

Artificial Intelligence

JAVA Programming

Calculus

Linear Algebra

### MOOC

Machine Learning in coursera - Ng Andrew  
cs229 in Stanford (Machine Learning) - Ng Andrew

cs231n in Stanford (Convolutional Neural Networks for Visual Recognition) - Feifei Li

## SKILLS

### PROGRAMMING

Over 5000 lines:

Java • R • Matlab • Python • SQL

Familiar:

Scala • C • HTML

### FRAMEWORK&SYSTEMS

Skillful:

Eclipse • Ubuntu • Caffee

Familiar:

Spark • Hadoop

## PUBLISHPMENT

### CONFERENCE

IEEE-international conference of big data analysis:

A Behavior Mining Based Hybrid Recommender System-(First author)

## JOURNAL

Journal of Information Science:

Theory of Behavior Mining Based Hybrid Recommender System-(Posted)

## RESEARCH EXPERIENCE

### SUSTECH | MARKET MONITORING SYSTEM BY PUBLIC OPINION

#### ANALYSIS & TEAM LEADER

07/01/2014 - 09/01/2014 | ShenZhen, GuangDong

Together with several students interested in NLP processing and data mining, I started a project in my fresh year building a market monitoring system based on the opinion analysis of micro-blog and Weibo-text(similar to twitter). We build a system that will catch the real-time news and Weibo-text and extract the emotional polarity from it to predict the potential market risk. We use both "bag of words" based method and SVM classifier method to train our model. In this project, I am in charge of the breadth first real-time web spider and data processing. The parallel spider will constantly catch 20 authoritative websites' financial news related to market and all Weibo-text related to specific topic.

### SUSTECH | A HYBRID RECOMMENDER SYSTEM BASED ON USERS'S

#### BEHAVIOR PATTERN MING AND COLLABORATIVE FILTERING & TEAM LEADER

04/01/2015 10/01/2015 | ShenZhen, GuangDong

We use the desensitize dealing logs provided by T-mall, Alibaba to build a hybrid recommender system. Collaborative filtering method is prevailing in industrial recommender system such as Amazon, Google News and is performing quite satisfactory. While CF method fail to address the sparsity problem of the data,which means CF are not appropriate to build a system that do not posses enough dealing logs and users. We introduce sequential pattern mining method into this hybrid system in order to predict the behavior pattern of the customer and the prediction proves to contribute largely to the recommend result. We published our result in 2016 IEEE International Conference on Big Data Analysis (ICBDA 2016).

## RESEARCH INTEREST

I am especially interested in Machine Learning and Deep Learning fields. During my last three years university experiences,I have participated in several data mining and NLP related research projects of my mentor.I have a strong appetite for new architectures and learning algorithms of deep neural networks.