Zhengkai Wang

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Education Background

SEIEE, Shanghai Jiao Tong University　　　　　　　　　　　　　　　　　Shanghai, China

Expected Degree: B.S.E. in Automation　　　　　　　　　　　　　　　　　　2015.09-2019.07

- GPA: 3.7/4.3
- Honor: Shanghai Jiao Tong University C-class scholarship

Project Experience

Participant in Research Program of Shanghai Jiao Tong University　　　　　Shanghai, China

Improvement of private transaction in blockchain　　　　　　　　　　　　　2017.09-2017.12

- Build private blockchain system based on Hyperledeger Fabric
- Analyze the details of ring signature algorithm and Range Proof algorithm in private transaction of blockchain
- Improve the performance of Range Proof algorithm
- Write the essay to present the result of research

Research project in Lab of Pattern Analysis and Machine Intelligence of SJTU　Shanghai, China

Analysis of SVM with indefinite kernel　　　　　　　　　　　　　　　　　2017.12-Now

- Summarize the properties of the IKSVM problem
- Attempt to solve the dual gap introduced by indefinite kernel
- Try some classical non-convex optimization algorithms on IKSVM problem
- Analyze the details of Nesterov's smooth optimization approach for indefinite kernel

Final project on Course *Pattern Recognition*　　　　　　　　　　　　　Shanghai, China

Improvement of Random Forest algorithm　　　　　　　　　　　　　　　　2017.10-2017.12

- Summarize the classical ensemble learning methods and their applications
- Compare the performance of RF method with Gini impurity and Entropy under different circumstances
- Analyze the influence of parameters in RF algorithm on given data set
- Propose the *Out of Bag Feature* estimation introduced from random feature selection in RF algorithm.

Intern Experience

Softyoung Intelligent Technology Co., Ltd　　　　　　　　　　　　　　　Shanghai, China

Software Department Intern　　　　　　　　　　　　　　　　　　　　　2017.06-2017.09

- Design and implement an interpreter independently in JavaScript to run UCC (a programming language and IDE like Visual Basic) applications on web
- Test and report the issues and bugs of UCC
- Improve the face recognition module in UCC

Activity Experience

Commencement of Shanghai Jiao Tong University　　　　　　　　　　　　Shanghai, China

Director　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2017.06-2017.07

- Design construction and content of the ceremony.
- Construct the communication channel among teachers, sponsors and stage design team
- Lead and coordinate the student community to launch original programs, and gain unanimous praise

Computer Skills

- Languages: C++, Python, JavaScript, PHP, HTML, Golang
- Tools: Git, Linux, Matlab, Shell, Docker