

Liangwei Li

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EDUCATION

Shanghai Jiao Tong University

Sep 2016 - Jun 2020

Bachelor of Information Engineering & French

Shanghai

- GPA: First Year: 4.04/4.30 (Top 5%), Second Year: 3.94/4.30(Top 5%)
- Selected Honors/Awards: Shanghai Jiaotong University Excellent Academic Award, Ardien Enterprise Award, Shanghai Jiaotong University Merit Student, Dorahacks First Prize, Bronze Medal of Google Cup Entrepreneurship Competition, Meritorious Winner of The Mathematical Contest in Modeling (MCM)

INTERN EXPERIENCE

Beijing Wecash Wonder Technology Co., Ltd.

Jul 2018 - Aug 2018

Machine Learning Intern, Data Model Department

Beijing

- Assist in the completion of the feature engineering migration task of user data, responsible for the feature construction of user data from Eleme data sources(These Features relate to the location of the order, the number of orders, order amount, etc.)
- Made a jupyter-notebook extension using Tornado with which one can deploy the currently editing file onto a server([see here](#))
- Monitored and visualized a MySQL database, where 1,000,000+ user data were involved

RESEARCH EXPERIENCE

Structural Reinforcement Learning Based on Deep Q Network

Aug 2018 - Present

SJTU-MVIG (<http://mvig.sjtu.edu.cn/>), Temporarily unable to open source

Working as an undergraduate member at Machine Vision and Intelligence Group(MVIG) supervised by Prof. Cewu Lu

- Designed a Node-Weight based Algorithm implemented by C++ for the Chinese card game: Doudizhu(斗地主). The winning rate against real persons is above 40%
- Proposed a hierarchical reinforcement learning framework based on Deep Q Network using Tensorflow. Designed a model based on this framework and got a winning rate of more than 50% against the Monte-Carlo Tree Search method

PROJECT EXPERIENCE

COMAP's Mathematical Contest in Modeling (MCM)

Feb 2018 - Feb 2018

Meritorious Winner (First Prize)

Shanghai

- Developed a mathematical model based on 687 energy-related data of California, Arizona, New Mexico, and Texas over the past 50 years
- Succeeded in scoring and evaluating the energy use of each state in each year to build 4 energy profiles with the Collaborative Filtering Algorithm

Asia and Pacific Mathematical Contest in Modeling

Nov 2017 - Nov 2017

First Prize

Shanghai

- Designed a model describing the relation between patients' sleep diseases and their own characteristics such as age, sex, sleep time and other features of 5,000 sleep disorders
- Implemented a Decision Tree Algorithm to predict the possible diseases of patients

Dorahacks Hachthon

Sep 2017 - Sep 2017

First Prize, Enterprise Award

Shanghai

- Crawled user data of MaiMai(脉脉) APP (with permission) using Requests library and Selenium library
- Analyzed one user's connection quality by the depth, width, influence and activity of his connection and drawn the user profile accordingly