Liangwei Li

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EDUCATION

Shanghai Jiao Tong University

Sep 2016 - Jun 2020

Bachelor of Engineering in Information Engineering & Bachelor of Arts in French

Shanghai

GPA: First Year: 4.04/4.30 (Top 5%)
 Second Year: 3.94/4.30(Top 5%)

PUBLICATIONS

Combinational Q-Learning for Dou Di Zhu

Yang You, Liangwei Li, Baisong Guo, Weiming Wang, Cewu Lu [arXiv]

Under Review, 2019

A Data Driven Energy Profile Evaluation and Prediction System

Liangwei Li, Haolin Pan, Yiming Qin [pdf]

The Mathematical Contest in Modeling (MCM), 2018, Meritorious Winner

RESEARCH EXPERIENCES

Hierarchical Deep Reinforcement Learning Framework for Board Games

Aug 2018 - Jan 2019

Shanghai Jiao Tong University - Machine Vision and Intelligence Group

Undergraduate Member

- 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

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 (view on my Github)
- Monitored and visualized a MySQL database, where 1,000,000+ user data were involved

PROJECT EXPERIENCES

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

SELECTED HONORS & AWARDS

Technology Innovation Scholarship	Nov 2018
Excellent Academic Award	Oct 2018
 Meritorious Winner of The Mathematical Contest in Modeling (MCM) 	Apr 2018
Bronze Medal of Google Cup Entrepreneurship Competition	Dec 2017
Ardien Enterprise Award	Nov 2017
Shanghai Jiaotong University Merit Student	Oct 2017
Dorahacks First Prize	Sep 2017