

HUIMING WANG

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EDUCATION

Zhejiang University

B.Eng. in Biosystem Engineering (Double Degree: Computer Science)

Hangzhou, China

Sep. 2016 – Jun. 2020

- GPA 3.69/4.00
- Core Courses: C/Python/Java Language Programming, Discrete Mathematics and its Application, Data Structure Basis, Digital Logic Design, Object-oriented Programming, Advanced Data Structure and Algorithm Analysis, Database System, Operating System, Machine Learning, Mathematics: Calculus, Linear Algebra, Mathematical Statistics, Probability Theory, Ordinary Differential Equations, Complex Variable Functions and Laplace Transform, Partial Differential Equations, Computer Simulation (Monte Carlo method, etc.)
- Awarded the Zhejiang Provincial Scholarship, the Research National Award

RESEARCH EXPERIENCE

Zhejiang University (Department of Computer Science)

Hangzhou, China

Research Assistant to Professor Yueting Zhuang, Dean of the School of Computer Science

Mar. 2018 – Present

Speech Text Alignment Technology Based on Deep Learning Machine Translation Model

- Improve previous machine translation algorithms, and modify new net model and try to apply deep learning and neural network technology to the field of machine translation better.
- Use optimization results for Speech Text Alignment, and attempt to join the emotional attitude assessment monitoring module with large amounts of data used for supervised learning.
- TensorFlow is used as a deep-learning tool for processing large data sets

Zhejiang University (Department of Computer Science)

Hangzhou, China

Research Assistant to Professor Siliang Tang, Head of Natural Language Processing Group

Sep. 2018 – Present

Automated Analysis of Human Language and Statistical Machine Translation

- Learn new technologies in Nature Language Processing and try to use them in real world;
- Independent research work recognizing typical language patterns in normal life and help build language recognition model to optimize question and answer system.

WORK EXPERIENCE

Oracle (China) Software Systems Co., Ltd.

Beijing, China

Big Data Development Intern & Solutions Specialist Intern

Apr 2018 – Jul 2018

- Use the basic knowledge of database design, NoSQL and distributed computing to gain insight and prediction of massive data through data mining;
- Using knowledge of various Oracle databases, PL/SQL usage and the application of Java and Python in database management to help built an online Oracle Big Data Automation Management Platform which can be used in automatic cleaning, inspection and performance monitoring of data through software system, and extract data from it into data sets and provide them for deep neural network training and use;
- Manage the schedule of project using Oracle's project management solution P6 and participate in the development of project management solutions, dedicated to managing project portfolios, controlling costs, and managing cross-project writing and communication;
- Work with the project manager to create a software development lifecycle using Primavera P6, covering the pre-project, documentation, development, commissioning, handover, testing, and product lifecycle phases, and participating in a real-world development. Clarify the entire process of software development.

Eigen Technology Co., Ltd.

Hangzhou, China

Back-end web development intern & natural language algorithm intern

Jul 2018 – Sep 2018

- Learn the use of flask development frameworks such as flask and sqlalchemy, responsible for the architectural design, functional development and code maintenance of the company's application system background;
- Before transferring to NLP algorithm intern, participate in the development of the company's internal management personnel management OA system and officially launched as a core member of the project;
- After transferring to NLP algorithm intern, participate in the development and optimization of the related model of Eigen Technology Machine Learning, achieve the algorithms and experiments in the papers, and become familiar with the basic algorithms of machine learning and Python programming (including using machine learning library of Python).

COURSE PROJECT EXPERIENCE

Programming in Python

Hangzhou, China

Box Office Prediction System

May. 2018

- First try from data collection, to data processing, to multi-layer neural network construction, to training algorithm design and implementation of projects that are completed by one person;
- Crawling movie information from multiple domestic and international movie websites through crawler technology, and converting text information into a digital matrix for processing calculations
- Complete the implementation of the neuron class and build a three-layer neural network for calculation. Finally, the box office information can be predicted by several different pieces of information (movie type, director, actor popularity, etc.) and achieve an accuracy of 82% (the rate is obtained by the size of the 10,000 test box office deviations).

Database System

Hangzhou, China

Mini Database Design

Jun. 2018

- From 0 to 1 using C++ to implement mini-database which can use basic SQL to complete the addition, deletion, and deletion of the data, including index creation and deletion;

Machine Learning

Hangzhou, China

Machine Learning/Deep Learning Algorithm Project (including SVM and CNN)

Oct. 2018

- Practice SVM and use the lib-SVM library to complete the video-based detection of speech or not (action recognition) procedures;
- Resolve the King's problem and optimize the motion recognition program with artificial neural networks;
- Train the model of CNN using ResNet, and try to judge whether two photos coming from one person

Operating System

Hangzhou, China

Operating System Design

Jan. 2019

- Complete code execution for three modules including process management, memory management, and file system. The completed operating system is capable of performing basic functions.

ADDITIONAL INFORMATION

Extracurricular Experiences

- Proprietor of Zhejiang University Caring-Heart Campus

Computer and Language Skills

- C/C++, MATLAB, Java, Python, R, SQL, Data Structure and Algorithms, Data Scraping, Machine Learning, LATEX, Monte Carlo method.