Huicheng Liu

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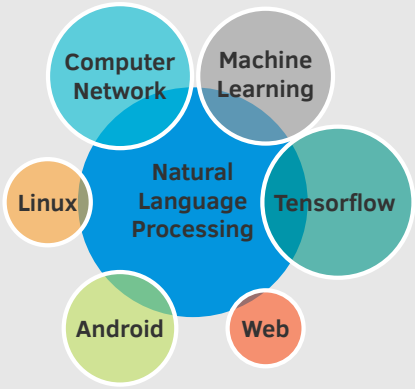
maobubu

Personal Skills

Overview



Programming

$0\ LOC \longrightarrow 5000\ LOC$

Python • Perl • Java

C/C++ • HTML/CSS • Shell

LaTeX • MATLAB • SQL

Projects

Sentiment Analysis - Sentiment analysis with two different NLP algorithms(Bi-LSTM,CNN), reaches 82.79% accuracy on IMDB movie review data set.

Digital recognizer - Implemented a Digital recognizer with JAVA and K-NN; Designed a classifier using python, tensorflow and CNN with 98.5% testing accuracy on MNIST data set.

Web Crawler - A crawler written in python that fetches data from Reuters and Yahoo finance.

Android Application - Designed an Android App using JAVA, the App can transfer data through HTTP protocol and control a temperature sensor terminal.

Who I am?

- Adaptive learner with Software specialty in Queen's University with strong Electronic hardware expertise.
- Adertly love programming, full experience in Python, Perl, Java. Familiar with C/C++, HTML/CSS, shell programming. Proficient in Linux system.
- Positive and enthusiastic thinker with strong analytical, problem solving, communication and organization skills.

Education

2017-2018 **Meng, Computer Engineering** (GPA: 3.83/4.3) Queen's University, Canada
Research Interest: Natrual Language Processing
Main Subject: Neural network, Pattern recognition, Software Re-engineering, Nonlinear system: Analysis and recognition

2013-2017 **Beng, Electrical Engineering** (GPA: 3.41/4.0) Beijing University of Technology, Beijing
Main Subject: Data Structure & Algorithm, Communication Network, Wireless Communication

Research & Professional Experience

09/2018-present **Software Engineer** Ruggedcom, Siemens Canada
- Modified an API using PERL and combine it with the old automation testing script for routers. Reduced the total run time by 150 minutes (50%).
- Master the skills of script programming with Perl and Linux. Deep understanding in computer network architecture.

02/2018-08/2018 **Stock Prediction with Natural Language Processing** Queen's University
- Implemented a stock trend prediction model with various Natural Language Processing models using Python and Tensorflow.
- Reached a 65.53% accuracy on predicting S&P 500 index movement with publicly available data set(State-of-the-art 66.93%); Reached an average accuracy of 68.10% on individual stock price movement prediction.

08/2016-09/2016 **Software Engineer Assistant** National Engineering Research Center of Rail Transit Operation and Control System, Beijing Jiaotong University
- Participated in the developing test script verification system.
- Enhanced the software development skills based on knowledge of Visual Studio, C++ programming.

01/2016-02/2016 **Testing Assistant** Beijing YiWangWuJi Science and Technology Co., Ltd.
- Worked as an intern, responsible for the testing on intelligent routers.
- Mastered the command of Unix / Linux operating system.

Publication and Other

08/2018 **Leveraging Financial News for Stock Trend Prediction with Attention-Based Recurrent Neural Network**

In Progress wrote a paper based on the **Stock prediction with Natrual language Processing** research project and submitted to the journal: Data&Knowledge Engineering(Under review)[arxiv].

03/2018 **SEMEVAL 2019 Shared Task Proposal: Stock market prediction using news event**
Principal writer and submitted a task proposal to the International Workshop on Semantic Evaluation(SEMEVAL).