Yiping Huang

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EDUCATION

BSc. Honours Data Science and Artificial Intelligence   Maastricht, NL | Sept 2018 - Jun 2021
MAASTRICHT UNIVERSITY

- GPA 9.0/10

Coursework: Data Structures and Algorithms; Machine Learning; Software Engineering; Simulation and Statistical Analysis; Parallel Programming; Large Scale IT and Cloud Computing

WORK EXPERIENCE

STATISTICS NETHERLANDS (CBS) | DATA SCIENTIST INTERN   Heerlen, NL | Sept 2019 - June 2021

- Crawled and cleaned data from Dutch company websites.
- Conducted topic discovery with LDA, then extracted topic-aware keywords using Text Rank.
- Created and implemented novel method for text classification by building document level graph from text, which achieved s-o-t-a performance on public benchmark.

SHANGHAI JIAOYU SOFTWARE CORPORATION | SOFTWARE ENGINEER (SE)   Shanghai, CN | July 2016 - Aug 2018

- Developed school bus scheduling and management system for Shanghai Normal University using **Vue.js**, **Node.js** and **MySql**.
- Developed front pages and dashboard for Kindergarten enrollment system of Hongkou district in Shanghai using **Vue.js**.
- Developed primary and middle school resource collection platform for Hongkou district using **Express**, **Mongodb** and **Node.js**.
- Developed HTML5 coursewares for Shanghai Open University using **Phaser.js**.

PROJECTS

BACHELOR THESIS ⬀   PYTORCH, SCIPY, TEXT CLASSIFICATION, GRAPH NEURAL NETWORK
A novel approach for text classification by treating document as subgraph. The model achieved s-o-t-a performance on benchmark datasets and is robust against noise in labels and small size of training set.

SECURE MESSAGE APP ⬀   PYTHON, SOCKET PROGRAMMING, MESSAGE SECURITY
Coded socket based communication in *C/S* architecture. Encrypted message communications with server and between clients using *RSA* and *AES*.

TRAJECTORY PLANNING SIMULATOR ⬀   JAVA, JAVAFX, NUMERICAL APPROXIMATION
Simulated celestial body movement using *RK4*. Used *PID* for spacecraft landing.

IMAGE PROCESSING ⬀   MATLAB, IMAGE AND VIDEO PROCESSING
A series of projects for image transformation, noise filtering, morphological processing

RANDOM QUOTE GENERATOR ⬀   **MARKDOWN PREVIEWER** ⬀   REACT.JS, DEMO/PROOF OF CONCEPT

SKILLS

Languages: Python, Java, Javascript, C(++), Matlab, Prolog, Bash, SQL
Machine learning: PyTorch, Pytorch Geometric, Captum, MXNet, Pandas, NumPy, Matplotlib, scikit-learn, Scipy, Spacy
Web Development: Vue.js, React, JavaScript, HTML/CSS, Bootstrap, JDBC, MyBatis, Django, Flask, Express
Databases: MySQL, MongoDB, Redis
Technology: Git, AWS, Docker, Apache, LaTeX
High Performance Computing: MPI, OpenMP
Developer Tools: IDEA, Eclipse, Navicat, PyCharm, VSCode, Jupyter notebook, Chrome Web Tool, Postman

LANGUAGES

- English, Dutch, Chinese(mother tongue), Japanese