Yu He

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Technical skills

Primary language: Python
Experience with other Languages: JavaScript, C++
Python data science libraries: NumPy, Pandas, SciPy, scikit-learn, Keras, Matplotlib
Python backend: Flask, Dash
Database: sqlite, MySQL
Version Control: git

Experience

Junior data scientist at Lidl   Oct. 2019 – Current

- Developed product sales dashboard using dash and flask.

- Implemented similar products detection based on features extracted from images and names using convolutional neural networks and word2vec model

- Stored detection results in SQLite database, accessed through flask backend and presented in frontend

Technology / Tools: Python with flask, NumPy, Pandas, SciPy, Spacy, Dash and Keras

Machine learning internship in Baymax   Feb. 2019 – May. 2019

- Designed disease prediction system based on users' input symptoms using Python

Technology / Tools: Python with NumPy, Pandas, SciPy

Student researcher in machine learning workgroup (project with ThyssenKrupp) Sep. 2018 – Jan. 2019

- Used dynamical system analysis for time series representation

- Implemented variational autoencoder for time series representation

- Used university computer cluster to speed up similarity matrix computation with parallel computing

Technology / Tools: Python with NumPy, Pandas, SciPy, Matplotlib and Keras

Education

Freie Universität Berlin
Master of Science in Computer Science   Oct. 2016 – Jan. 2019

- Master thesis about time series representation learning

- Most courses focused on data science, machine learning and deep learning

- Average grade of 1.4 (Maximum 1.0)

Tianjin University of Finance and Economics
Bachelor of Science in Computer Science   Sep. 2012 – Jun. 2016

- Bachelor thesis about event clustering system

- Courses including mathematics, signal analysis, programming and computer networks

- Average grade of 92 (Maximum 100)