Xuanhao HUANG
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Education Background

Beijng Institute of Technology, Zhuhai **09/2016-06/2020**
Major: Applied Statistics
Bachelor Degree in Science (conferred in June 2020)
Awards: 1st Prize Scholarship for Academic Excellence (02/2017)**;**
3rd Prize Scholarship for Academic Excellence (09/2017);
3rd Prize Scholarship for Academic Excellence (06/2020);

Technical University of Dortmund **09/2022 - now**
Major: MSc Data Science

Internship Experience

TOPSEC **07/2019-09/2019**
Intern in the After-sales Department

- Corporate with other colleagues to implement the configuration management plan according to CMO's arrangement
- Provided technical supports and periodic maintenance for company products
- Independently operated document management, authority management and release management of company projects
- Got familiar with the installment, configuration, use and upgrade of Git
- Pushed products: issued data leak prevention software to users by company's server
- After-sales feedback: collected information about software push status of all the nodes in a company, made summary and produced a report

Work Experience

Beijing FengYunTianDi
Data Analyst Python **09/2020-01/2021**

- Use Python to write scripts to process weather radar data, automatically generate reports, and deploy them to Linux server
- Use Geopandas module to visualize geographic and heat maps
- Automatic meteorological early warning system using Python

Guangdong Molecular Assets Management Co., Ltd.
Quantitative Trading Engineer (Python) **04/2021-07/2022**

- develop quantitative trading strategy such as grid trading, hedge trading, using VNPY(Python opensource framework)
- scrapping market depth and ticker data to analysis (Using websocket framework in Python)
- database maintaining (Using mangoDB and Mysql with Python)
- using api to process account safety monitoring (Using python mudule related to REST API and WebSocket API)

TU dortmund
Research assistant **05/2024-now**

- Assisting research about hyperparameter tuning.
- helping to develop new kernel of bayesian optimization for hierachical hyperparameters.
- helping to define new test function for benchmarking of different kernels.

Project Experience

Survey and Analytics of University Library Satisfaction
05/2019-06/2019
Key member, instructed by Prof. Peng Yuan

- Assisted in literature collection
- Applied R for data processing and mining
- Produced a thesis titled *Library Satisfaction Analysis Cased on Association Rules*

Mathematical Contest in Modeling (Honorable Mention Winner, top 25%)

04/2019

Team leader, instructed by Prof. Yuntao Jia

- Established mathematical models to predict the inclination of a variety of drugs in different states of USA based on two data sheets provided
- Mainly responsible for data preprocessing and analysis based on more than 10,000 entry of data: reshaped data by one-hot encoding method, added the features of data sheet 2 to sheet 1 for analysis, and finally applied single-layer perceptron to make prediction
- **Software:** R, Python
- Managed the whole team and divided assignments to team members, and also monitored the progresses of the project

China Undergraduate Mathematical Contest in Modeling (Provincial 3rd Prize)

09/2018

Team leader, instructed by Prof. Yuntao Jia

- Designed a four-layer thermal protective clothing: designed the thickness of each layer to optimize insulation based on heat conduction equation and thermal conductivity
- Mainly responsible for modeling and programming: outlined differential equation and partial differential equation based on program conditions, applied Monte Carlo method to find the optimal parameters and then drew the temperature distribution
- Software: Matlab

Skills

Language Skills: English (IELTS6.5); Chinese (first languae)

Computer Skills: R, Python, GO, C, Matlab, SPSS, SAS