CHONG WANG

+86 13176107899 | 2018211702@bupt.edu.cn

EDUCATION

Beijing University of Posts and Telecommunications Beijing, China
B.S. in Software Engineering (Expected in Jul 2022) Sept 2018 – Present

- GPA: 90.17/100 (3.77/4.00) , rank 7/161
- Selected awards: Second-Class Scholarship (Sept 2019, Oct 2020)
- Selected courses: Linear Algebra 100/100, Advanced Mathematics 97/100
  Algorithms and Data Structures 92/100
  The Numerical Analysis and Computational Method 92/100

PUBLICATIONS

1. Y. Sun, C. Wang, R. Wang, Z. Wang, H. Wu and F. Lou. "Analysis and Improvement of DV-HOP Algorithm Based on Particle Swarm Principle", under review

RESEARCH EXPERIENCE

Beijing University of Posts and Telecommunications Beijing, China
Investor Sentiment Calculation Apr 2020 – Jun 2020

- Crawled user comments on a blockchain forum, and calculated and analyzed investor sentiment scores through algorithms to predict the trend of blockchain
- Wrote a crawler program to crawl online data and store them in MySQL on remote server
- Utilized Python word segmentation toolkit (jieba) and scientific computing packages (pandas, sklearn) for data preprocessing
- Performed word segmentation through WMSeg model using BERT as the encoder and compare the robustness of this model with respect to Python word segmentation toolkit jieba
- Drafted and published a journal article

Beijing University of Posts and Telecommunications Beijing, China
Research Assistant to Professor Yi Sun Oct 2020 – Dec 2020
Analysis and Improvement of DV-HOP Algorithm Based on Particle Swarm Principle

- Improved the control methods of hop count and hop distance according to the shortcomings of traditional DV-HOP algorithm
- Introduced the particle swarm algorithm and improved the original particle swarm algorithm to enhance the positioning accuracy of the DV-HOP algorithm
- Collected experimental data, and performed simulation experiments via Matlab to verify the positioning accuracy of the algorithm
- Drafted and translated the paper "Analysis and Improvement of DV-HOP Algorithm Based on Particle Swarm Principle"

2020 National Innovation and Entrepreneurship Training Program for College Students Beijing, China
Research Assistant to Professor Yi Sun Sept 2020 – Jun 2021
Domain Data Analysis and Budget Platform Based on Economic Forecast Model

- Aimed to build a mobile-accessible platform that integrates a series of APIs related to econometrics algorithms, in which econometric forecasting algorithms and related models are deployed on remote servers
- Adopted Django for back-end construction, utilized MATLAB to implement econometric algorithms, and reproduced and optimized the original algorithm and model through Python's multiple toolkits (numpy, pandas, sklearn, torch, etc.)
- Deployed the packaged algorithm to the remote server and provided the corresponding interface for front-end access
- Employed js and html to visualize the front-end of algorithm model

Beijing University of Posts and Telecommunications Beijing, China

Chinese Traditional Art Teaching Inheritance and Artwork Appraisal Project Based on the Combination of Terminal and Cloud Dec 2020 – Jan 2021

- Aimed to develop an art appraisal and teaching platform based on the combination of terminal and cloud
- Adopted CNN models such as ResNet-50 for feature selection and extraction of artwork images
- Built the platform via Vue+ SpringBoot

American College Student Mathematical Modeling Contest Beijing, China
Participant Feb 2021

- Employed mathematical models to explore the Herring and Mackerel migration and fishery strategy
- Collected relevant papers and experimental data in a variety of domestic and foreign databases
- Improved the DV-Hop positioning algorithm to predict the migration position of fish schools
- Adopted the GM (1,1) model to quantitatively analyze the changes in sea temperature
- Drafted the paper "A Model for Herring and Mackerel Migration and Fishery Strategy", and achieved the award of Honorable Mention

ADDITIONAL INFORMATION

Computer and Language Skills

- Computer: Matlab, Python, PyTorch, Java, C++, MySQL, Microsoft Office Suite
- Languages: Mandarin (native), English (fluent)