Wang, Zian

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Github page: https://github.com/ziw42

EDUCATIONAL BACKGROUND

School of Computing and Information, University of Pittsburgh   01/2021-Present
- **Major:** Information Science
- **Degree**: Master's Degree
- **Current GPA:** 3.977/4.0

School of Artificial Intelligence, Hebei University of Technology   09/2016-06/2020
- **Major:** Computer Science and Technology
- **Degree**: Bachelor's Degree
- **Overall GPA:** 3.43/4.0
- **Second Major:** Information and Computing Science

RESEARCH EXPERIENCES

Bayesian Optimization Review   12/2021-Present
- Review basic concepts of Bayesian optimization.
- Apply Bayesian optimization to benchmark functions from one dimension to multiple dimensions, and from unimodal to multimodal.
- Test the influence of different acquisition functions and other factors involved.

Tweets Sentiment Analysis   12/2021-05/2022
- Analyze and classify the tweets based on sentiments.
- Use and compare many embedding methods and many models.
- Finally use modified GRU and LSTM DNN as the best two models to do classification, the accuracy can reach 78% compared to 55% in many related works.

Police Union Contract Misconduct Complaint Detection   09/2021-01/2022
- Detect unfair misconduct terms in the police union contracts.
- Removing errors, preprocessing, embedding, and building several models, includes Random Forest, Neural network, LogitBoost, SLDA, and SVM.
- Use ensemble to improve performance of our system, recall up to 98% can be achieved.

CAASI Allegheny County Policing Project   08/2021-01/2022
- A project that aims to make police contracts more transparent to the people.
- Working as a technique team member in Dr Yuru Lin's PICSO lab of the University of Pittsburgh, responsible for building the police dept map, and display the data.
- Gained full-stack development experience.

Complex System Performance Prediction   01/2021-05/2021
- A project to predict the performance of a complex system in the industrial domain.
- Build several regression and classification machine learning models to predict the performance and to optimize the system to have minimal probability of failure.
- Include preprocessing, training, testing, optimizing steps.

A Steel Price Analysis System based on Data Visualization (Graduation Project)   01/2020–05/2020
- Design, code, test, and complete independently throughout the process
- Crawl the necessary price data from public websites
- Build and use ARIMA model to analyze and predict the prices of steel in a short period of time in the future

BIM-based Intelligent Building Cloud Platform   11/2017-06/2018
- Participated in the design of database and the construction of database architecture
- Responsible for the preparation of data presentation page and other technical work
- Collected the data required by the project and checked and processed the project data

Visual Analysis of Global Game Sales Data from the 1980s to the Present   05/2019-06/2019
- Conducted visual analysis of the sales data of global top five game manufacturers in each year by using Tableau

- Gained information about the changes in top five game manufacturers in the world and the changes in sales data of vendors

INTERNSHIP

Aurora Mobile Limited, Shenzhen, Guangdong | *Basic Data Department Intern* 07/2019-08/2019
- Responsible for updating the app information with no tags in the Hive library, tagging them and putting them into storage
- Learned the cutting-edge technology of data mining and big data analysis
- Got a better understanding of how to mine the wanted data in the data warehouse and how to classify it

EXTRACURRICULAR ACTIVITIES

Volunteer Activities

Member of Volunteers Association for Rare Diseases in Hebei University of Technology 09/2016-09/2017
- Accompanied the children with rare diseases in the ward
- Responsible for the making of publicity materials of the association

Summer Social Practice in the Old People's Home and Microsoft Game Innovation Center 07/2017
- Visited local villages, accompanied old people in recreational activities in Chongli County, Zhangjiakou, Hebei and investigated local government policies and the impact of the 2022 Winter Olympics on local production and life
- Visited the Microsoft exhibition area, communicated with the staff on the innovative methods and learned their innovation and entrepreneurship experiences in the business salon activities

Campus Activities

Director of Sports Department in the Student Union 09/2016-09/2018
- Guided department members to organize the Basketball Game and Brisk Walking activity
- Engaged in schedule and venue arrangement of School Sports Meeting and University Sports Meeting and organized athletes to participate in the competitions in time and the spectators to watch the games

Lecturer on Computer Knowledge in Computer Network Association 09/2016
- Explained computer hardware, computer assembly and computer purchasing knowledge for students attending the lecture and answered related questions

HONORS & AWARDS

Second Prize in the National College Students E-Commerce Innovation, Creativity and Entrepreneurship Challenge 10/2018

Third Prize in "Internet" College Students Innovation and Entrepreneurship Competition 10/2018

Second Prize in "Creating Youth" National College Student Entrepreneurship Competition 10/2018

Group Special Award in Hebei University Student E-Commerce Innovation, Creativity and Entrepreneurship 04/2018

Championship of Youth Go Match in Shijiazhuang, Hebei 10/2012

OTHERS

Language Skills: Chinese (native), English (CET-4, CET-6, TOEFL 98, GRE 320)

Programming Skills: Most often use Java, Python, and R. Familiar with SQL, Matlab, C and C++. Built websites with Django+React. Have experience with hadoop(Code MapReduce programs).

Certificate: National Computer Rank Examination (Level-4)

Go Grading-Five Certificate (Highest Rank in Hebei Province)