Haoyu Wang

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https://whybfu.github.io

Education

Beijing Forestry University *(Bachelor's Degree)* Beijing, CN 2020 - 2024(expected)

- **Major**: Computer Science and Technology
- **Graduation project**: Driver Fatigue Detection Algorithm Based on Deep Learning
- **Key disciplines**: Python Application(A), Computer Organization Course Design(A), Database System(A), Introduction to Artificial Intelligence(A), Data Structure Course Design(A)

Internship Experience

Beijing Huashu Yihui Technology Co., Ltd (Position: Data analyst) Beijing, CN March 2024 - current

- Utilizing Python and SQL for the analysis and verification of medical data
- Participating in the development of the medical retrieval system, and enabling various methods to query the database

Shenzhen Zmotion Technology Co., Ltd (Position: Vision Engineer) Shenzhen, CN July 2023 - March 2024

- Responsible for using Python for visual positioning, matching, and detection algorithm encapsulation in the company's IDE
- Assisting in function packaging for visual features and creating document for developer

Shanghai Operation Robot Co., Ltd (Position: Software Engineer) Shanghai, CN July 2021 - August 2021

- Working on using C++ to debug surgical robots and checking operational status; drafting patent application for endovascular interventional medical robots
- Learning about ROS (Robot Operating System) and assisted mentor in operational checks, completed around 50 command action checks; comparing algorithms for patent writing

Research Experience

Driver Fatigue Detection Algorithm Based on Deep Learning *(Graduation project)* March 2024 - current

- Realizing the analysis of human fatigue states based on YOLOv8-pose and devised a multi-modal evaluation algorithm
- Realizing the analysis algorithm of yawning and squinting based on facial key points detection

Office OA System Based on Mybatis February 2023 - May 2023

- Developing an integrated database system supporting different SQL languages for mainstream database maintenance
- Involved in template writing and module testing for two SQL dialects and participated in overall system integration

Complex Narrow Components Compartment Structure Detection and Removal Operation Robot June 2022 - August 2022

- Responsible for the perceptron component, including the deep learning-based object detection and the ranging function
- Utilizing YOLOv5 for detection, using coordinate difference between the boxes of the objects to calculate the distance

Certifications

Machine Learning, Modeling, and Simulation Principles - Massachusetts Institute of Technology 2021

Skills

- **Programming skills**: Java, C++, C, Python, Git, PyTorch, Linux, Latext, Matlab, Labview
- **English Proficiency**: GRE: 323 + 3.5, Q:170, V:153, Test Date: November 16, 2023
- **Databases**: MySQL, SQL Server
- **WebDev**: Html, Css, JavaScript, Vue, ApacheWebServer, TomcatWebServer