Bingsong Tong

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EDUCATION

Xi'an Jiaotong University   *9/2021-6/2025*
- Expexted Degree: Bachelor in Computer Science (Academic Elite Class)
- GPA: 3.98/4.30（Rank: 1/35）   91.92/100
- Core Courses and Scores: Mathematical Analysis for Engineering (4.3/4.3), Calculus (4.3/4.3), Linear algebra (4.3/4.3), Probability (4.3/4.3), Complex functions (4.3/4.3), Mathematical Physics Equations (4.3/4.3), Computer Programming (4.3/4.3), Discrete Mathematics (4.0/4.3), Probability and Statistics Random Processes (4.0/4.3), Electric Circuit (4.0/4.3), Computer Programming (4.3/4.3), Data Structure and Algorithms (3.7/4.3), Introduction to Computer Systems (4.0/4.3)
- National Inspirational Scholarship

University of California, Berkeley (Global Exchange Program)   *8/2023-12/2023*

   Course: COMPSCI 161 Computer Security, COMPSCI 188 Introduction to Artificial Intelligence, COMPSCI 61C
         Great Ideas of Computer Architecture (Machine Structures)

National University of Singapore (Summer Workshop 2023 by the School of Computing)   *5/2023-7/2023*

      Artificial Intelligence of Things   A- (Excellent)

INTERNSHIP

Apple China Beijing: DMP Data-Science   *7/2022-8/2022*
- Data collection: Obtained sales data of Macs, iPads, iPhones, and other products in China from the Apple company database through SQL and perform data processing
- Model chose: Discussed with the group member to choose the best model. Finalized the use of ARIMA and SARMAX model
- Machine Learning: Trained with specific model, through model to make prediction and specify sales plans
- Made slides and complete the report: Reported the effectiveness of the model to superiors in the group

RESEARCH

Intelligent Human Sitting Posture Recognition System in Xi'an Jiaotong University   *11/2022-3/2023*
- Data collection: Collected pressure data from different sitting positions of the human body through pressure sensors
- Model training (CNN): Used CNN algorithm to train and classify the data
- Won the second prize in the "Tengfei Cup" Innovation Competition at Xi'an Jiaotong University

IntelliFit: Smart AIoT Fitness Companion in National University of Singapore   *5/2023-7/2023*
- Data collection: Built circuits using raspberry pies and breadboards, captured images using cameras, and collected temperature and humidity data using DHT-11 sensors
- Data Processing: Labeled human point coordinate data through the mediapipe library and used PCA technology to reduce dimensionality for convenient training
- Machine Learning: Trained with SVM model
- Data Communication: Transferred data to the server through the MQTT protocol
- Data presentation: Built LED light circuits to distinguish correct posture with different colored lights, and send temperature and humidity data to micro: bit via Bluetooth. Made web pages for data visualization

SKILLS

- *Computer Skills*: Python, C/C++, SQL,MATLAB,SPSS , experienced in algorithm design and data analysis
- *Language Skills*: Duolingo 115, CET-6 566. Fluent in English

AWARDS

- Second Prize of the 14th National Mathematics Competition for College Students in Shannxi
- China College Students' 'Internet+' Innovation and Entrepreneurship Competition Shaanxi Province Gold Award
- Outstanding Student of Qian Xuesen Honors College at Xi'an Jiaotong University
- Member of the "Academic Elite Program" of Xi'an Jiaotong University
- Successful Participant in 2023 Interdisciplinary Contest In Modeling