Bowen Zhang

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Education

South China University of Technology **Sep 2021 – Jun 2025**
Bachelor of Software Engineering, GPA:3.84/4.0 (90.32/100.0, rank:4/49 Excellent Engineer Class) *Guangzhou*

Relevant Coursework

- Mathematical Analysis
- Linear Algebra
- Machine Learning
- Deep Learning
- Discrete Mathematics
- Data Structures
- Data Mining
- Database System

Experience

Machine Learning and Data Mining Lab (advised by Qianli Ma) **Oct 2023 – Present**
Research Intern *School of Computer Science, SCUT*

- Mainly focused on research in data mining and time series modeling, especially time series forecasting and classification.
- Recently researched on Mixture-of-Experts and multi-scale modeling, and applied them to time series analysis problems.
- Understood graph neural network and spatio-temporal data mining, including graph neural network, GCN, GAT.

Key Laboratory of Big Data and Intelligent Robot (advised by Yi Cai) **Mar 2023 – Present**
Research Intern *School of Software Engineering, SCUT*

- Researched on natural language processing and LLM, engaged in practical research on models,ChatGLM and Qwen,etc.
- Completed the project "Smartvision: AIGC-based Smart Glasses for Visually Impaired Travel Assistance" and won the Second Prize of National College Students' Software Innovation Competition (South China Area).
- Recently researched on LLM hallucination and RAG technology, developing the project "Natural Language Content Matching System Based on LLM".

Projects

Smartvision: AIGC-based Smart Glasses for Visually Impaired Travel Assistance | *Python* **Oct 2023 – Present**

- Aimed at visually impaired individuals and adopted a Client-Server architecture, using ChatGLM as LM base.
- The project performed intelligent QA, smart navigation, object recognition and intelligent obstacle avoidance functions.
- Writed innovative project documents, software development documents, and software testing documents.
- Developed the object recognition, utilizing object detection models such as mmdetection, detic, YOLO-World, etc.

Beyond Guessing: Data-Driven Exploration of Word Features and Relationships| *Python, LaTeX* **Feb 2023**

- Used ARIMA model to solve problems related to time-series analysis, determined ACF & PACF values and forecasted.
- Used the K-means clustering method to determine the difficulty level of the problem, TOPSIS entropy weight analysis.
- Utilized SPSS and Matlab for data preprocessing, analysis and visualization. Proficient in using LaTeX to write paper.
- This paper received Finalist(Top 0.17%) in MCM (Mathematical Contest In Modeling).

Technical Skills

Programming Languages: Python, C++, Java, Matlab, LaTeX, SQL
English Level: CET6: 512, CET4: 567

Honors and Awards

- National Scholarship(rank: 1/49) 2022
- Top Ten Excellent Student Models of SCUT (The best honor for undergraduates in SCUT) 2023
- Top Ten Excellent Communist Party Members Nomination Award of SCUT 2024
- First Prize Scholarship of South China University of Technology (rank: 2/49) 2023
- Finalist of Mathematical Contest In Modeling (MCM, Top 0.17%) 2023
- First Prize of Chinese Mathematics Competitions (CMC) 2022 and 2023 (twice)
- Gold Prize of National College Student Algorithm Design and Programming Challenge 2023
- Second Prize of National College Students' Software Innovation Competition (South China Area) 2024

Leadership / Extracurricular

Monitor of class **Sep 2022 – Present**
South China University of Technology

- Led class to receive Top Ten Excellent Classes Nomination Award of South China University of Technology in 2023.
- Talented in Mathematical Analysis (Score:98, rank:1/124), received Excellent Auxiliary Volunteer.