

白若琪

(+86) 13509710155 | rbai876@connect.hkust-gz.edu.cn

Member of the Communist Party of China



PROFESSIONAL EXPERIENCE

Shanghai digital intelligence technology co., ltd (DIA)

Mar 2023 - Jun 2023

Data Science Analyst BMW project team

- Platform maintenance: provide integrated and intelligent user operation and digital brand marketing solutions for BMW (BMW), and help BMW realize the full range of models.
- Integrated management of channel user data, fine-grained and full-link user operation system construction, and ultimately achieve operational growth.
- Build models: participate in AI modeling and algorithmic capabilities, build BMW's user insights and customer portraits, and achieve large numbers in the marketing link of media operations and effect monitoring.
- According to the efficiency and performance of marketing activities.
- Daily inspection: timely update the weekly and monthly sales data of various models of BMW company, and at the same time obtain the sales situation of competitors through python crawler technology, and make advance.
- Police analysis and brand marketing.

Guotai Junan Securities

May 2021 - Jul 2021

Bond researcher Fixed Income Investment Dept

- Due diligence: financial verification of the enterprise's procurement, sales and construction-in-progress business, implementation of drawing procedures, screening of visitors and visit plans according to the construction of the project,
- more than 40 copies of meeting minutes and project-related materials were compiled, the bank flow of the issuer and its subsidiaries was reviewed, and the practice of the issuer's directors and supervisors was verified online.
- Draft preparation: participate in a bond financing project of a city investment, responsible for docking the materials of listed companies, lawyers and accountants, according to the requirements of the CSRC, the production of all the working papers of the project, involving the issuer's assets and main business. Statistics: Skilled use of Wind, Choice, Juchao and other applications to find financial data, update financial ratios, statistical bond trading data, modify the verification version of the prospectus.

EDUCATION

Hong Kong University of Science and Technology Guangzhou

Sep 2025 - Aug 2028

Fintech Doctor Social hub

Guangzhou

User interaction modeling based on particle estimation and reinforcement learning:

quantitative Financial Strategies and Related Research

intelligent Investment Advisor Assistant

The Massachusetts Institute of Technology

Quantitative Finance

Completed the MIT Quantitative Finance course (edx official website) and obtained the official course certification.

University of Sydney

Jul 2023 - Feb 2025

Data Science (ML) Master

Sydney, New South Wales, Australia

- GPA:73
- Related courses: Data Mining ML Advanced ML Statistical Learning Methods Deep Learning

Nanjing University of Audit

Sep 2019 - Jun 2023

Smart Finance Bachelor

Nanjing

- GPA:3.93

- Related courses: Econometrics, mathematical models, advanced mathematics, linear algebra, multiple linear regression
- Honors/Awards: National Scholarship Winner, School Level First Class Scholarship

Experience outside of work

Nanjing marathon activities volunteer activities

Sep 2019 - Oct 2019

Head of logistics

Nanjing

- Organize and undertake Nanjing municipal volunteer activities, a total of 12 hours of service, mainly responsible for volunteer training and on-site supervision, by Nanjing TV live report and praise.
- Because of the organization and coordination ability, won the Jiangsu Province Nanjing "excellent volunteer" title.

PROJECT EXPERIENCE

National mathematical modeling contest for college students

Sep 2021 - Oct 2021

- Analysis of core index changes: monitor and analyze the data given by the topic, extract a settable solidification analysis framework from the special analysis of its abnormal fluctuations, build an intelligent data monitoring system, greatly reduce the time cost of abnormal problem positioning, timely understand the reasons for index changes, and feedback and push to improve the efficiency of information acquisition.
- Design the best experimental conditions: to improve the efficiency and output of chemical reactions, based on multiple linear regression, decision tree and optimization ideas to explore the best process conditions for ethanol coupling to prepare C4 olefins. Using modeling and analysis methods, split the quantitative value and find the potential to improve the final economic benefits. The final paper won the third prize in Jiangsu Province.

Blood cell image recognition and diagnosis

Oct 2023 - Dec 2023

- Using random forest RF, support vector machine SVM, multi-layer perceptron MLP and convolutional neural network CNN four ML algorithms to identify blood cell images and divide them.
- 7 types. The results of the four algorithms in computational efficiency, accuracy and other aspects are comprehensively compared after hyperparameter tuning. In the end, the accuracy of the CNN model reached 0.91,
- MLP is 0.85, RF is 0.85, and SVM is 0.88.

PBL Interdisciplinary Online Course-UCLA Artificial Intelligence Empowerment Education

Feb 2022 - Feb 2022

- Data collection and processing: Collect students' learning data, including attendance, homework submission, classroom participation, etc. The data is cleaned and pre-processed to ensure that the number
- quality and consistency. According to the professional knowledge in the field of education, extract and select the key characteristics that affect students' performance, such as learning time, rest frequency, learning environment, etc.
- Model building and training: Use Python and Scikit-Learn libraries to build random forest models, train models and adjust parameters to improve prediction accuracy. Use cross-validation methods to evaluate.
- The performance of the model is evaluated to ensure its generalization ability on different datasets. The accuracy and stability of the model are verified by the confusion matrix, ROC curve and other evaluation indicators. Right.
- The model prediction results are analyzed, the main habit factors affecting students' performance are identified, and targeted learning suggestions and improvement measures are put forward.

Automatic dubbing using the diffusion model

Mar 2024 - Apr 2024

- Feature extraction using AST and VideoMAE models, dimensional matching and data structure optimization through a layer of CNN convolutional neural network, and then through diffusion mode.
- type, using MSE as a loss function and Adam as an optimizer, adding 1000 times of Gaussian noise. After the noise reduction process, the original audio information is restored, and the number of samples is
- from 12000 re-sampling to 22050 samples, and finally converted to audio format output, to achieve the effect of automatic dubbing of movie clips.

MISCELLANEOUS

- **Skills:** AI, SQL, Svm, Http, Excel, Https, Optimization, Office, Marketing, Audit, Github, Python, Tableau, R Language, Big Data
- **Certifications:** IELTS, Primary Accounting Qualification Certificate, Fund Qualification Certificate, Computer Level 2, IELTS