

Chaoran (Ryan) Que

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EDUCATION

Master of commerce - Data Analytics & Digital Business (WAM 79/100)
University of Sydney

Mar 2021 – Mar 2023

Bachelor of Engineering - Biological Engineering / Economics - Finance (Dual degree)
Shandong University

Sept 2015 – Jun 2019

RELEVANT EXPERIENCE

In-class Project: Digitalization of Australian Computer Museum Society Collection

Mar 2021 – Jun 2021

- Collaborated with a team of 5 to analyse the need of clients and develop a complete business proposal to digitalize over 20,000 collections for ACMS. (HD in final grade.)
- Contributed to developing ERD for the data storage, optimizing the BPM to bring the estimated completion time down to less than 6 months, estimating and optimizing the total cost evaluation to be eventually less than 12,000AUD by collecting and analysing the market data.

Machine Learning Competition

Aug 2021 – Nov 2021

- Led a team of 5 developing a price prediction regression model from a real dataset retrieved from Airbnb and won the 1st performance solution. (HD in final grade.)
- Be responsible for most part of EDA, feature engineering, and optimization of several models (XGB, LGBM, NN, model stacking). Also provided insights for iterating the whole process to enhance performance. ([Detailed summary blog link](#) on GitHub. Link to [Kaggle competition](#) page.)

Natural Language Processing Task Using Neural Network

Mar 2022 – Jun 2022

- Led a team of 5 developing a book rating prediction model based on readers' review and summary. Received F1 score of 0.443 with 9000 samples trained. [Detailed summary blog link](#)
- Adopted a novel LSTM-CNN-ordinal regression structure. Be responsible for text pre-processing, feature engineering and optimisation of hyperparameters.

Student Consulting Project – Accelerating Digitalization

Jun 2022 – Aug 2022

- Participated in a project sponsored by Macquarie Group to develop a solution to measure the impact of digitalization and subsequently motivate the digitalization progress. Nominated as the best solution among the peers.
- Participated in identifying the key metrics for measurement; Was responsible for developing a prototype and narrated relevant user journey to demonstrate the advantages and limitations.

Designing workplace using Agile methods

Sep 2022 – Dec 2022

- Collaborated with teammates of different backgrounds, as well as the clients giving continuous responses, produced a satisfying prototype within 3 months.
- Used the Scrum framework and the tools of Trello and Planning Poker, practised the planning -> daily standup meetings -> review -> retrospective meetings iterations, the team improved significantly in communication, outcome quality, and efficiency.

WORK EXPERIENCE

Part-time Content Researcher and Contributor

May 2023 – Oct 2023

Preface AI

- Stayed abreast with the latest technology trends and news (mostly about generative AI in NLP, image and audio), and explored related topics for video content creation.
- Completed 20+ high-quality video scripts with supporting visualizations. The content covers technology concept explanation, useful application, and business implication as most of the audiences are enthusiasts and novice practitioners.

Individual Investment Advisor Assistant

Jun 2019 – Sept 2019

ZHESHANG SECURITIES CO., LTD.

- Helped in identifying the traits and selling point of certain financial products.
- Helped in maintaining customer relationship. Provided satisfying explanation of certain products to over 40 clients.

EXTRACURRICULAR ACTIVITIES

Individual Game Development

Mar 2021 - now

- Using Unity and C# to develop a base building/Resource Management/Open world/Survival Game. Inspiration comes from Rim world, Dwarf Fortress, etc.
- Still in early stage while I am trying to integrate AI technologies into the game.

SKILLSETS

- Programming: **SQL** (Postgres, MySQL), **Python** (ML&DA-related libraries, basic algo.)
- Analytical Tools: **SPSS**, **Excel** (PrecisionTree, @Risk, Pivot table), **Tableau**
- Language: **English** (IELTS Band 8.0), **Mandarin** (Native)
- Cloud Platform: **Azure** (ML workspace), **IBM Cloud** (db2)
- Soft Skills: **Research & Problem solving**, **Collaboration**, **Adaptability**
- Certificates: **ITIL4 foundation**, **MS certified Azure Data Science Associate** (DP-100)