

# Dong Li

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## EDUCATION

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### University of Melbourne

*B.Sc. Major in Data Science*

Melbourne, Australia

*Expected Nov 2024*

### The University of British Columbia

*Exchange program, Major in Applied Mathematics*

Vancouver, Canada

*Sep 2023 – Dec 2023*

### Buckley Park College

*Victorian Certificate of Education (VCE)*

Essendon, Australia

*Jan 2016 – Dec 2021*

## SKILLS

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**Computer:** C, Java, Python, R, HTML, JSON, Pandas, Beautiful Soup, Scipy, Numpy, Sklearn

**Quantative Skills:** Linear Algebra, Calculus, Probability, Statistical Inference, Data Processing/Mining, Linear Programming, Algorithms, Data Modeling

**Languages:** English, Cantonese, Mandarin, Japanese

**Soft Skills:** Resilience, Leadership, Teamwork, Organisation, Customer Service

## EXPERIENCE

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### Phoebe Solutions

*Data Scientist Intern*

Melbourne, Australia

*August 2024 – Present*

- Developed a machine learning algorithm leveraging association rule mining to identify patterns in medical billing claims and associations between items, aimed at detecting errors and inconsistencies in the billing process.
- Designed and implemented a MongoDB database to efficiently store and manage medical billing claims.
- Created an API to automate the processing of new claims, update the database, and return recommended missing items based on a set of association rules stored within the system.

### Mathstar

*Tutor*

Keilor East, Victoria

*Mar 2023 – Present*

- Provided personalised tutoring in both one-on-one and group sessions with completely tailored teaching methods to each individual student
- Possess excellent problem-solving and on-the-spot critical thinking, as well as analytical skills that are needed to break down complex mathematical problems into manageable components and then formulate a solution that can effectively communicate ideas to students
- Worked in a team with other tutors in the company to strengthen individual points in different subjects for certain students, together we organised and divided tasks to form a functional team focused around helping students

### Private Tutor

*Tutor*

Melbourne, Victoria

*Feb 2024 – Present*

- Developed and implemented work plans tailored to individual student needs and adapting and changing the work plan based on the degree of difficulty for the student, specifically focusing on building strength in areas of weakness and preparation for exam conditions
- Demonstrated effective one-on-one communication skills as well as the ability to succinctly and efficiently illustrate ideas in a way that students could understand
- Tutored a range of subjects including but not limited to, Specialist Mathematics, Mathematical Methods, Introductory Python and Introductory Algorithms

## AWARDS & ACHIEVEMENTS

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**Melbourne Global Scholars Award:** Awarded to applicants that study overseas based on academic achievement using the University's Weighted Average Mark (WAM)

**1st Place at Mathematics Association Victoria, 2017 Maths Games Day:** Part of the 4-person Buckley Park College Team 1 that came first out of 89 schools in Victoria, *2017 Maths Games Day Results*

**Highest achieving student for Further Mathematics:** Awarded to the highest study score for the subject in my cohort

### **Data Mining and Analysis** | [GitHub](#) | Python, Pandas, BeautifulSoup, NLTK

- Exploring text processing, data processing, data visualisation techniques with Python, Pandas, BeautifulSoup and NLTK
- Communicated results through graphs and metrics, answering questions related to website page classification, and website text analysis
- Demonstrated data pipeline for data wrangling, scrapping and crawling

### **Clustering** | [GitHub](#) | C

- Demonstrated an understanding of structures, linked data structures, and algorithm time complexity analysis
- Focused on the major subcategory of unsupervised learning and clustering looking at community detection which aims to find groups of social network app users that are densely connected
- Worked with a dataset to generate and analyse communities with many applications in social media and recommender systems

### **Machine Learning & Data Analysis** | [GitHub](#) | Python, Matplotlib, Scipy, Numpy, Sklearn

- A group project focused around data wrangling, data pipelining and data analysis
- Explored the research question: What on-field performance metrics exhibited by AFL players has the strongest correlation with their goal-scoring potential and which model will predict this best? Through machine learning, we derived models to analyse the effect of specific attributes on goal-scoring potential
- Communicated results through a report with metrics and graphs looking at different modelling and machine learning techniques with evaluation of performance of models