

Jin Chai

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Education

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| Macquarie University , Master of Research in Data Mining | Jan 2025 – Now |
| <ul style="list-style-type: none">International Research Excellence Road to Research Scholarship | |
| The University of Queensland , Master of Data Science | Feb 2023 – Dec 2024 |
| <ul style="list-style-type: none">GPA: 6.6/7.0Dean's Commendation for Academic Excellence (2023 S1, 2024 S1, 2024 S2) | |

Experience

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| International World Wide Web Conference 2025 , Volunteer | Sydney, Australia May 2025 |
| <ul style="list-style-type: none">Assisted speakers with slide checks and laptop setup, resolving technical issuesSupported session chairs by facilitating Q&A and keeping sessions on scheduleStaffed the registration desk and guided attendees to rooms, and poster areas | |
| PIPP.ai , Business Data Analyst Internship | Brisbane, Australia Apr 2024 - Aug 2024 |
| <ul style="list-style-type: none">Managed and optimised database tables across 14 environments in Power AppsDeveloped 15+ Power BI dashboards and reports for business datasetsConducted in-depth research on 5 potential partners to support negotiations | |

Projects

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| Personalized Time of Interest For Active Sequential Recommendation | Jan 2025 – Nov 2025 |
| <ul style="list-style-type: none">Pioneered joint modeling of users' time of interest and item of interest for sequential recommendation, enabling proactive reducing spam or irrelevant pushesDesigned training objectives that maximize mutual information between time and item interests, supported by rigorous theoretical derivationsOutperformed 8 state-of-the-art baselines across 5 datasets under two data split strategies, highlighting superior performance of model via extensive experiments | |
| Synthetic Data Generation Model For Generating Non-IID Vehicle Trajectory Data | Feb 2024 – Nov 2024 |
| <ul style="list-style-type: none">Pre-processed 14,000 real-world vehicle trajectories from three major US citiesDeveloped a synthetic data generation model using the WGAN-GP framework combined with LSTM and self-attention mechanisms to capture Non-IID effectivelyBenchmarked the model against 3 state-of-the-art baselines, validated model performance through extensive experiments, highlighting significant improvements | |
| Practera Nano Digital Marketing Strategy | Jan 2024 – Feb 2024 |
| <ul style="list-style-type: none">Collected more than 500 user interaction records from Koko Matrix's five social media platforms, constructed visual analysis using TableauDeveloped a data-driven digital marketing strategy for Koko Matrix using the 80/20 rule, achieving a 15% increase in social media visibility, engagement, and sign-ups | |

Technologies

Languages: Python (Pandas, sklearn, PyTorch, PySpark), R, MATLAB, SQL

Technologies: PowerBI, Tableau, Excel, Microsoft Power Apps