Yan Min Chan

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Portfolio: https://yanminchan.github.io/

Summary

Data Science postgraduate (MSc, Heriot-Watt University UK) with strong foundation in machine learning and statistical modelling. Skilled in Python, R, Java and SQL, with hands-on experience in analysing and visualizing complex datasets. Experienced in documenting projects clearly to ensure reproducibility.

Education

Heriot-Watt University (Edinburgh, UK), MSc Data Science (2 Years)   **2023 – 2025**
Current average mark: 84%

- **Intelligent agents:** Built an AI agent (Java) that competed against different strategy agents in Tic-Tac-Toe, with more than 80% winning rate.
  (Private repo available upon request)
- **Machine learning:** Developed a neural network model from scratch, improving predictive stability compared to traditional approach.
  (Code: *github.com/YanMinChan/particle-swarm-optimisation*)
- **Data analysis and visualisation:** Filtered, sorted and visualised 1M+ lines of JSON data using Python Tkinter and Matplotlib.
  (Code: *github.com/YanMinChan/data-analysis-tkinter*)

Courses: Biologically Inspired Computation, Data Mining and Machine Learning, Big Data Management, Data Visualisation and Analytics, Artificial Intelligence and Intelligent Agents.

Other activities: Member of university archery competition team.

Heriot-Watt University (Malaysia), BSc (Hons) Statistical Data Science   **2020 – 2023**
First-Class Honours

- **Time series analysis:** Optimised sea surface temperature forecasts with 0.65% error, using seasonal models and neural network models.
  (Code: *github.com/YanMinChan/analysis-sst*)

Courses: Data Assimilation, Optimisation, Statistical Machine Learning, Time Series, Bayesian Inference.

Experience

Digital Symphony (DS Services Sdn. Bhd.), Research Intern   **2022**

- Standardised property data for the company, utilised Excel and Google Maps to ensure data accuracy and formatting consistency.
- Analysed property turnover rate patterns in West Malaysia to support reporting.

Technical Skills

- **Languages:** R, Java, Python, C#, SQL
- **Libraries:** Scikit-learn, PyTorch, Pandas, Matplotlib, Tkinter
- **Tools:** Git, Jupyter, Linux, Neovim