Koay Min Sen

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EDUCATION

- **Nanjing University**　　　　　　　　　　　　　　　　　　　　　　Nanjing, China
  Bachelor Degree of Computer Science and Technology　　　　　　*Sep. 2018 – June. 2024*

WORK EXPERIENCE

- **Jabil**　　　　　　　　　　　　　　　　　　　　　　　　　Penang, Malaysia
  Industrial Trainee　　　　　　　　　　　　　　　　　　　*Jul. 2022 - Sep. 2022*
  - Developed a face mask detection model to enhance safety precautions in a factory setting by ensuring compliance with mask-wearing policies.
  - Utilized data annotation tools (LabelImg) to accurately mark and categorize thousands of images, ensuring high-quality dataset preparation for training purposes.
  - Configured and fine-tuned the YOLOv5 model parameters to improve detection accuracy and performance.

PROJECTS

- **Predicting Brain Age in Healthy Adults Using Multivariate Regression**
  Graduation Dissertation
  - This study examines how different feature engineering methods can improve the accuracy of models trained on a high-dimensional tabular MRI dataset with 410 original features.
  - Using grouped aggregate features significantly boosted model performance, making them the most effective feature engineering technique in this study.
  - The best performance achieved was with a test MAE of 0.35770, an R^2 of 0.99815, and a Pearson correlation coefficient of 0.99903.

- **Employee Retention Insights: Analyzing Attrition Patterns and Predictors**
  Personal Project
  - Performed EDA to understand the dataset and identify key trends and patterns.
  - Conducted survival analysis to estimate the probability of employees remaining with the company over time.
  - Utilized Kaplan-Meier curves to compare survival probabilities across different demographic groups (e.g., job levels, departments).
  - Developed a binary classifier to predict employee attrition with an F1-score of 0.92.

- **A Comprehensive Movie Browsing and Watchlist Platform**
  Personal Project
  - Developed a web application using Reactj.s and Express.js.
  - Integration with the TMDB API to provide up-to-date information on a wide range of movies.
  - Allow users to create and manage personalized watchlists.
  - Detailed movie pages displaying essential information and user reviews.

SKILLS

- **Technical Skills**: C++, Java, Python, SQL, Git, Linux, Data Analysis, Data Visualisation

- **Soft Skills**: Teamwork, Analytical Thinking, Problem-solving, Self-reliant, Resourceful

LANGUAGES

Chinese : *Native Speaker*　　　　　　　　　　　　　　　　**English** : *Fluent*
Malay : *Fluent*

LINKS

- GitHub

- LinkedIn