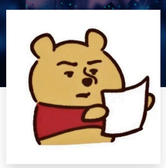
From Zero to Hero



SHEN LI | 沈礼

个人主页 github 微信 QR

I'm currently pursuing a Bachelor's degree in Artificial Intelligence at University of Malaya.

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Education

University of Malaya, Bachelor of Artificial Intelligence(2024.10-2028.3)

• GPA: 3.2/4

Research Interests

• Data Structure and Algorithm

• Machine Learning

• Large Language Model

AWARDS

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EXPERIENCE

ToDoList App

January 2025 – June 2025

Built a functional ToDoList app with both command-line and graphical user interfaces, demonstrating skills in object-oriented programming and user interaction design.

Key Contributions:

- Designed and implemented the object-oriented structure for task management modules.
- Developed both CLI and GUI interfaces to enhance user interaction flexibility.
- Utilized event-driven programming to support real-time task updates and state synchronization.
- Ensured smooth user experience through interface logic optimization and exception handling.

Lithium Battery Remaining Useful Life (RUL) Prediction System

November 2024 – December 2024

Designed and implemented a machine learning pipeline to predict the remaining useful life (RUL) of lithium batteries based on real-world battery performance data. The system supports proactive maintenance and optimizes replacement schedules.

Key Contributions:

- Built a complete machine learning pipeline including data preprocessing, model training, and performance evaluation.
- Applied feature engineering techniques to improve prediction accuracy using real battery datasets.
- Trained and fine-tuned XGBoost regression models to predict RUL with high reliability.
- Visualized prediction results and RUL trends using Matplotlib for analytical insight and presentation.

PUBLICATIONS

Design and Application of a Prediction Method Based on Random Forest and ARIMA Model

2025 International Conference on Modeling, Simulation and Computing Science (MSCS 2025)

- **Status:** Accepted (To be published by IEEE CPS, submitted for EI Compendex, Scopus, and Inspec indexing)
- Contributions:
  - Proposed a hybrid forecasting framework integrating Random Forest and ARIMA, with a focus on time series modeling and residual diagnostics.
  - Conducted ADF stationarity tests, ACF/PACF analysis, and identified ARIMA(2,1,1) as the optimal model.
  - Participated in model validation and results interpretation, ensuring statistical significance and practical applicability.
  - Received favorable reviewer comments with only minor suggestions on English grammar and formatting.

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