

# Yishan CHEN

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## Education

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**Shanghai JiaoTong University** | B.S. Electrical and Computer Engineering | Shanghai, China Aug 2026  
Relevant Coursework: STAT4060J Computational Methods, STAT4710J Data Science and Analytics using Python  
Scholarships: Taiwan Student Scholarship (2023–2025); Bai Xian Asia Future Leaders Scholarship (2024–2026)  
**Keio University** | Exchange Program, Computer Science | Tokyo, Japan Mar 2025 – Aug 2025  
**Université de Technologie de Troyes** | Exchange Program, French | Troyes, France Jan 2025 – Feb 2025  
**Kwansei Gakuin University** | Exchange Program, Law | Hyogo, Japan Jan 2024 – Feb 2024

## Projects

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**terny.ai – Agentic AI Research Opportunity Matching System** Nov 2025 – Present

- Developed a data aggregation system via scrapers and LLMs to extract lab information and match student abilities to research opportunities.
- Led the **Agentic AI Architecture** design, building a Multi-Agent coordination pipeline for topic comprehension.
- Orchestrated workflows using Codex and Antigravity, integrating event logging and Git/GitHub version control.

**GNN & Transformer Material Property Prediction Engine** Dec 2025 – Present

- Engineered an automated data pipeline for comprehensive cleaning, aggregating, and multi-dimensional node vector mapping of OC22/DFT datasets.
- Built a computational backbone integrating Graph Neural Networks and Transformers. Refactored a reusable PyTorch training backbone for scalable cross-model experimentation.

**Scaled Data Regression Engine: Structured House Price Prediction** Sep 2025 – Dec 2025

- Processed a 250k+ dataset with 60+ features using NumPy and pandas to engineered feature abstractions for predictive modeling.
- Built a linear regression model via Hinge Gradient Descent in sklearn, optimizing performance through targeted hyperparameter tuning.
- Delivered a highly reusable validation module, achieving high-precision predictions with RMSE of 0.38.

**Fake News Text Classification Network & Visualization Dashboard** Sep 2025 – Dec 2025

- Cleaned and processed 70k+ news records using Python with advanced text preprocessing to improve data quality and feature robustness.
- Extracted TF-IDF feature vectors and trained SVM classifiers via gradient descent, achieving 93% accuracy and outperforming baseline models.
- Built an interactive Shiny dashboard to visualize real-time predictions, translating complex model outputs into an accessible user interface.

## Leadership & Activities

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**Youth Volunteer Association** Vice Head, Publicity Department Sep 2022 – Aug 2024

- Led external communications for charity programs, heavily coordinating social media content and campus promotion to drive student engagement.
- Led a 30-member team on a two-week teaching support program in Eryuan, directly overseeing planning, resource coordination, and impact dissemination.

**Student Association** Honorary Member, Publicity Department Sep 2022 – Aug 2024

- Supported college-wide event planning and execution, frequently designing custom merchandise and efficiently managing comprehensive online sales.

## Skills

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**AI/ML:** GNN, Transformer, LLM Prompting, Agentic Workflows  
**Programming:** Python, SQL, C/C++, MATLAB  
**ML/Data:** PyTorch, scikit-learn, pandas, NumPy  
**Tools:** Git/GitHub, Shiny  
**Languages:** Chinese (Native), English (Fluent), Japanese (Conversational)