Yishan CHEN

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Education

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

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

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

AI Applications: Agentic Workflow, LLM Prompt Engineering, AI-assisted Code Gen (Codex, Antigravity)
Data & Algorithms: Python, pandas, NumPy, SQL, R
Development & Tools: Git, Shiny (Frontend UI Dashboard), MATLAB, C/C++
Languages: Chinese (Native), English (Fluent), Japanese (Conversational)