

Yishan CHEN

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Education

Shanghai Jiao Tong University | B.S. Electrical and Computer Engineering | Shanghai, China Expected 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 web scrapers and LLMs to automate parsing and extraction from complex lab websites.
- Led the **Agentic AI Architecture** design, building a Multi-Agent coordination pipeline for research topic comprehension, student profile modeling, and bidirectional matching.
- Orchestrated cross-source API calls and workflows using Codex and Antigravity, integrating event logging and stack tracing, with Git/GitHub for version control.

GNN & Transformer Material Property Prediction Engine Dec 2025 – Present

- Engineered an automated data pipeline for cleaning, aggregating, and multi-dimensional node vector mapping of materials science datasets (OC22/DFT).
- Independently built a computational backbone integrating Graph Neural Networks (GNNs) and Transformers, heavily refactoring core PyTorch clusters for cross-model reusability.

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

- Processed a 250k+ dataset with 60+ features using NumPy and pandas to abstract and aggregate engineering data.
- Built a linear regression model via Hinge Gradient Descent in scikit-learn, optimizing performance via hyperparameter tuning.
- Delivered a highly reusable validation module, achieving high-precision predictions with an RMSE of 0.38.

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

- Cleaned and processed 70k news records using Python, applying text preprocessing techniques to optimize data quality.
- Extracted features via TF-IDF and trained classification models using SVM and gradient descent for dataset evaluation.
- Achieved 93% accuracy through advanced text preprocessing and feature selection, outperforming baseline models.
- Developed an interactive Shiny dashboard to monitor end-user data predictions, encapsulating complex algorithmic outputs.

Leadership & Activities

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

- Led external communications for charity/educational programs, coordinating social media content and campus promotion.
- Led a 30-member team on a two-week teaching support program in Eryuan (Yunnan), overseeing planning, coordination, and impact dissemination.

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

- Supported college-wide event planning and execution, regularly designing merchandise and managing online sales.

Skills

AI Applications & Engineering: Agentic Workflow, LLM Prompt Engineering, Codex Code Gen

Data & Algorithms: Python, PyTorch (GNN/Transformer), pandas, NumPy, scikit-learn, SQL

Development & Tools: Git, Shiny, MATLAB, C/C++

Languages: Chinese (Native), English (Fluent), Japanese (Conversational)