

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/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)