

# Fudi Wang

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## Education

**Southwest University**, College of Artificial Intelligence Sept 2023 – Expected Jun 2027  
*Bachelor of Engineering in Intelligent Science and Technology*  
(**Ranked #84** Globally in Artificial Intelligence — **U.S. News 2024 - 2025**)

**GPA:** 4.12/5.0 (Top 5%) | **Minor:** 88.28/100 | **Ranked 1<sup>st</sup> in Comprehensive Evaluation**

**Core Coursework:** Machine Learning (88), Data Structures & Algorithms (87), Database Principles (94), Linear Algebra (98), Probability & Statistics (91), Java (98), Python (96), Advanced Mathematics (89/94)

**Honors:** **National Scholarship**, **Outstanding Communist Youth League Member** (Twice), Sci-Tech Chairman Award, University Innovation Award

**English:** CET-6 (530)

## Research Experience

### Dual Balanced Large Marginal Machine for Imbalanced Data Classification

Advisor: Prof. Guojun Huang

Sep 2024 – Present  
Southwest University

- Co-authored a journal paper under review (SCI Q3) proposing a novel classification framework for **imbalanced datasets**.
- Designed and implemented Dual Balanced Large Marginal Machine using **Scikit-learn** to enhance decision boundary margins for minority classes.

## Projects

### WiseJourneyUnbound - Smart Cultural Tourism Platform Technical Lead — Enterprise-Driven Innovation Project [WiseJourneyUnbound](#)

- Led end-to-end development of an edge-cloud system: fine-tuned domain-specific LLM (PyTorch + LangChain) on cloud for itinerary generation, deployed lightweight inference module on edge devices for real-time user interaction.
- Grand Prize**, “Challenge Cup” National Competition — solved real-world tourism problem proposed by **China Mobile**; recognized for technical innovation & autonomous system design.

### OmniGuard — Multimodal Risk Content Recognition System Technical Lead — Huawei ICT Platform Project [OmniGuard](#)

- Led R&D on **Huawei ICT stack** (ModelArts/OBS/IoT Edge/IoTDA); built multi-agent LLM system (LangChain+PyTorch) for text/image risk detection — optimized MongoDB-backed inference, cutting latency 35% & boosting GPU use 40%.
- Global 2<sup>nd</sup> Prize & National 1<sup>st</sup> Prize**, Huawei ICT Competition; **National 2<sup>nd</sup> Prize**, CRAIC & “Challenge Cup” National Competition.

### CampusCat — AI-Powered Campus Navigation & Life Assistant Founder & Lead Developer — Dorm-Initiated Project [CampusCat](#)

- Self-initiated & led dorm-based team** to build **full-stack AI assistant**: NLP agent (LangChain + LLM) for campus Q&A, reverse-engineered timetable/map APIs (Java/SpringBoot + Flutter + MongoDB), deployed on self-managed Linux/Nginx stack with CI/CD (Git/Docker).
- Integrated **hardware extension** (PCB-designed info kiosk, co-developed with CS Dept.); adopted by 500+ students — reduced daily task time 40%.

## Leadership & Global Involvement

### National “Youth Marxist” Engineering Program Participant

- Selected from top 1% nationwide for **leadership training**; led 10+ campus lectures on youth’s role in tech innovation and social responsibility.
- Recognized for two-year excellence in peer mentorship and community service — awarded “**University-Level Outstanding Participant**”.

China Youth University of Political Studies  
**2025 – Present**

### Research Presentation: “Smart Cities — AI in Cultural Tourism & Risk Management”

- Led team in **topic selection, research design & final presentation** — focused on AI applications for smart tourism & urban services and detecting **multi-modal telecom fraud** in tourism hotspots.
- Earned strong recommendation letter from **Prof. Mansun Chan** for academic rigor; learned to adapt AI solutions to real-life urban and tourism challenges.

The Hong Kong University of Science and Technology (HKUST)  
**Jan 2025**

### AI & Art Interdisciplinary Workshop

- Led cross-disciplinary team** in hands-on labs exploring generative AI (Stable Diffusion, VQ-VAE) for digital art/music synthesis.
- Studied ML, AI ethics & interpretability — awarded “**Outstanding Participant**” & “**Best Student**” (only recipient across all teams).

UK Exchange Program (Loughborough University)  
**Feb 2025**