# Yike Tan

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## EDUCATION

**Carnegie Mellon University** — Pittsburgh, Uniterd States
**Master of Artificial Intelligence Engineering** — 2024-2025(Excepted)

- **Core Modules:** Systems and Tool Chains for AI Engineering, Introduction to Deep Learning, Trustworthy and Ethical AI Engineering, Introduction to Information Security, AI Applications in Information Security, AI in Business Modeling, Fundamentals of Telecommunication Networks

**University of International Business and Economics** — Beijing, China
**Bachelor of Data Science and Big Data Technology** — 2020-2024

- **GPA: 3.70, mGPA:3.87      Rank: 1/27**
- **Core Modules:** C++ Programming(99), Linear Algebra(92), Probability and Statistics(90), Discrete Mathematics(97), Dynamics of Economic Growth(91), Principles of Database Systems(91), Basis of Big Data Analysis Technique(92), Applied Big Data Analysis for Law and Social Sciences(97)

## WORK EXPERIENCE

**Computer Vision Engineer(Intern), EpochingAI, Beijing** — July. 2024 - Aug. 2024

- Trained Vision Transformers for text and watermark removal in images within the e-commerce domain, improving image quality for product listings.
- Optimized controllable generation techniques for e-commerce scenarios, including control via text, image, and video inputs.

**Machine Learning Engineer(Intern), Ytell, Beijing** — Sep. 2023 - Mar. 2024

- Designed visual tools for LLM Agents, integrating cutting-edge multimodal models like MiniGPT-V and LlaVA Series into a user-friendly and accessible Tool format.
- Engineered an LLM-based knowledge extraction system to distill question-and-answer pairs from varied data, contributing to an enterprise knowledge base via the RAG system.

## PUBLICATION

**Keep Knowledge in Perception: Zero-shot Image Aesthetic Assessment** — Feb. 2023 - Dec. 2023
Co-First Author (Leading Student Contributor), ICASSP 2024 (Oral)
Advisor: **Guolong Wang** (School of Information Technology & Management, UIBE)

- Utilized the CoOp model to establish a training method for continuous prompts, and employed the CLIP model's image and text encoders to extract features. This methodology enabled the computation of similarity between images and texts, facilitating the construction of continuous prompts for evaluating aesthetic attributes.

## PROJECT EXPERIENCE

**Datawhale Community Open-Source Projects** — May. 2024 - Present

- Contributed to the self-llm project by writing and developing instructional materials on integrating GLM4 with LangChain.
- Translated and authored educational content for the llm-cookbook project, focusing on the autogen and knowledge graph sections, and updated section: Building Systems with the ChatGPT API.
- Developed image support for the TinyRAG, a subproject in the tiny-universe repository.

## EXTRACURRICULAR ACTIVITIES

**Teaching Assistant** for the C++ Programming Course — Sep. 2021 - Feb. 2022
**Captain** of the Departmental Badminton Team — Sep. 2021 - Jun. 2022

## SKILLS

**Research Interest**: Multi-modal models, Agents, Image Aesthetic field

**Programming**: Python, C++, Java, R, SQL

**English**: TOEFL: 101(S:23)