YU-CHI (Vincent) KO

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Aspiring AI engineer with hands-on experience in LLMOps, Retrieval-Augmented Generation (RAG), and AI product development. Passionate about building intelligent tools that bridge cutting-edge research with real-world applications.

Keywords: LLMOps, AI Agents, RAG/GraphRAG, Claude MCP, Databases, DA & ML (Python/R), Cloud Services.

EDUCATION

- **National Taiwan University** — Taipei, TW
  M.S. in Data Science, College of Electrical Engineering & Computer Science — Sep 2025 – Present
- **National Taiwan University** — Taipei, TW
  B.B.A. in Finance & Decisive Data Science (UIBP); GPA: 4.05/4.3, 192 credits in total — Sep 2021 – Jun 2025

PROFESSIONAL EXPERIENCES

- **Cathay United Bank** — Taipei, TW
  LLMOps Engineer — Jun 2024 – Dec 2024
  - **RAG System Development**: Designed and deployed the bank's first internal AI chatbot for regulatory queries and training material retrieval, leveraging advanced RAG techniques. Improved retrieval accuracy from 70% to 94%.
  - **Multimodal Meeting Assistant**: Building a real-time meeting assistant that generates product prototypes on the fly, significantly enhancing meeting productivity and decision-making. Received 92% satisfaction from internal users.
  - **Research and Patent Application**: Authoring a paper on a novel preprocessing approach for RAG systems, integrating LLMs with traditional methods. Filing a patent application within the company.
- **Academia Sinica, IIS** — Taipei, TW
  Undergraduate Research Assistant — Jan 2024 – Jun 2024
  - **LLM for Financial Analysis**: Conducted research on applying LLMs to financial statement analysis. Involved in data labeling, model training, and regular research discussions.
- **Gorich Tw** — Taipei, TW
  Prompt Engineering and Finance Intern — Aug 2023 – Feb 2024
  - **Taiwan Stock Market AI Chatbot**: Built an AI chatbot for Taiwan's stock market using RAG and fine-tuning techniques. Integrated real-time stock data and semantic analysis to deliver timely and accurate investment insights. Developed program trading strategies.
- **Artificial Intelligence Programming with Python (NTU course)** — Taipei, TW
  Teaching assistant — Sep 2023 – Jan 2024
  - **Engaging new methods to combine python-learning with AI**: Helped beginners learn Python efficiently by integrating AI tools. Designed coursework and assignments. (Course rating: 4.9/5.0)

AWARDS

- **GenAI STAR competition**: Top 10 in 700+ teams and the best team in ELTV division. Representative speaker of the award.
- **E.SUN bank AI cup Open Challenge**: Ranked Top 6 percent in credit card fraud with imbalanced and skewed data.
- **Hult Prize Global**: Selected as World Semi-Finals for excellence in entrepreneurship and business strategy.

PROJECTS

- **Alternative Product Recommendation System** — IM5047 Big Data and Business Analysis
  Role: Algorithm Engineer / Data Mining / Presenter
  - Explored user behavior and product affinity in the apparel industry using ML techniques (e.g.,neural embeddings).
- **User Preference Prediction for New Service of 55688 TaiwanTaxi** — Prog5265 Capstone
  Role: BERT Classifier Developer / Front-End Engineer / Presenter
  - Built a multi-category user intent classification system, outperforming company's baseline by 11 percentage points.
- **KKTV User Viewing Time Prediction Competition** — IE5054 Data Analytics
  Role: Model Developer / Deep Learning Engineer
  - Collaborated with KKTV in an industry-academic project to predict user watch-time patterns using CNN and LSTM models, achieving 83% prediction accuracy. KKTV utilizes the given model to enhance user experience.

LANGUAGES

- **Languages**: Mandarin, English (IELTS 7.5/9, R9 W7 L8 S6, TOEIC 895/990), Spanish (Intermediate)

EXTRACURRICULAR ACTIVITIES

- **NTU COMSA President / Secretary-General**: Organized large-scale student activities and coordinated cross-department member communications. Help students to convey ideas and suggestions. Re-hold activities halted due to COVID-19.
- **NTU Racing Team Chief Financial Officer**: Oversaw club finances, implemented internal auditing and reporting systems.