Ching-Heng Huang

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Professional Experience

Ernst & Young Consulting Services   Taipei, TW

Digital and Emerging Technology - Senior Technology Consultant   May 2024 – Jun 2025

- Fine-tuned OpenAI models and implemented RAG pipelines in Python to extract insights from knowledge documents, achieving 95% accuracy and enabling clients to validate model robustness.
- Applied pre-trained AI models to label product types for non-standardized goods, significantly reducing manual labeling time by automatically classifying up to 15,000 items per minute.
- Directed team members deploying and scaling EY's global audit system with Podman on Red Hat Linux, shortening client legal review duration by 40% and improving system adaptability.

Digital and Emerging Technology - Technology Consultant   Aug 2022 – May 2024

- Designed anomaly detection rules with Python and SQL for banking workflows, reducing manual reviews by 90% and providing interactive Tableau dashboard for clients to detect fraud in real time.
- Implemented a two-stage ML classifier for imbalanced fraud data, achieving 85% accuracy while maintaining target recall, and reducing false positives in insurance applications.
- Served as a Tableau courses developer and instructor, guiding 200+ stakeholders across 5 departments through migration from spreadsheet system to a visualized data analysis platform.

Education

Columbia University   New York, NY

Master of Science in Data Science   Expected Dec 2026

Courses: Applied Machine Learning, Deep Learning for computer vision, Algorithm for Data Science

National Tsing Hua University   Hsinchu, TW

Bachelor of Quantitative Finance, GPA 3.78/4.0   Feb 2019 - Jan 2022

Courses: Statistical Learning, Data Structure and OOP, Database Management

Academic Project

Deepfake Detection Pipeline with CNN–ViT Architecture and XAI Integration

- Developed a deepfake-detection pipeline using CNNs and Vision Transformers, achieving 96% accuracy and integrating XAI (Grad-CAM + LLM) into an interactive user interface.

AI-Powered Interview Coaching System with Fine-Tuned RAG

- Fine-tuned embedding models for resume-question retrieval, enabling Gemini LLM to generate personalized interview questions based on candidate experience.

Certifications & Technical Skills

- **Certifications:** TensorFlow Developer | Microsoft DP-900, AI-900 | Google DA, IT Automation
- **Programming & Visualization Tools:** Python, R, SQL, C++, Matlab, Tableau, PowerBI
- **Python Packages:** Pandas, Polars, Numpy, Matplotlib, Scikit-Learn, Pytorch, Tensorflow, Django
- **Database:** MSSQL, MySQL, Oracle **Other:** Azure, GCP, RedHat, Ubuntu, Docker, Podman, Git