Hua-Hsiang (Daniel) Yao

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Portfolio Website: https://portfolio-website-rho-three-40.vercel.app/

Objective:

Aspiring Data Scientist with a strong foundation in **statistical modeling**, **machine learning**, and **data analytics**. Proven experience in developing and implementing **predictive models** and **algorithms** to solve real-world problems. Eager to contribute to **data-driven decision-making processes** and drive **business value** through actionable insights.

Education:

University of California, Riverside   Fall 2022 – March 2025

Major: Bachelor of Science in Data Science

Work Experience: June 17th – August 9th 2024

➢ **Data Science Fellow - UN SDG Automation Project (***NLP, Regex, Semantic Search***)**
  o Contributed to a project supporting the **United Nations Sustainable Development Goals (SDGs)** by developing an automated framework to classify university courses by sustainability alignment. This system directly aids universities in **qualifying for international funding** through high-impact STARS reports, promoting global sustainability standards across higher education.
  o Collected and processed over **10,000 course records** from university portals and registrar data (e.g., Rweb), maintaining a **95% data accuracy rate** throughout the extraction and transformation process.
  o Designed and implemented multiple classification pipelines, including **text pattern matching using Python regex and Elasticsearch**, and **semantic matching via large language model (LLM)**, achieving **80%+ matching accuracy**. Resulted in a system that reduced manual reporting efforts by 70%, improved consistency across SDG reports, and laid the groundwork for scalable sustainability reporting tools used by university stakeholders.

Projects:

➢ **Project Leader- Text-Based RPG (***C++***)**
  o Led a 4-person project group in developing a text-based role-playing game, completed the project 12.5% faster than expected.
  o Spearheaded the conceptualization and initial idea development. Responsible for **assigning coding work, integrating codes, debug, and testing.**
  o Achieved 98% in project evaluation, underscoring its success and seamless execution.

➢ **Software developer - E-Commerce Ordering System** (***Python/SQL***)
  o Collaborated closely with another team member to swiftly develop the system, focusing on both functionality and user interface optimization, improving user navigation speed by 30%.
  o Utilized **SQL database** technologies to ensure efficient data storage and retrieval, enhancing system performance by 25%, which could potentially reduce server costs by 15% if scaled for Amazon-level operations.
  o The optimized workflow could reduce order processing time by up to 20%, potentially leading to a 10% increase in customer satisfaction and a 5% increase in overall sales for similar e-commerce platforms.

➢ **Bank Marketing Data Analysis (***R, Python, multiple Regression models***)**
  o **Analyzed a large dataset** related to direct marketing campaigns (phone calls) of a Portuguese banking institution.
  o Conducted **data cleaning, one-hot encoding, and logistic regression** modeling to predict client subscription to a term deposit. Collaborated with a group to develop and implement predictive models based on the dataset, contributing to insights for marketing strategy optimization.

Relevant Skills:

  o **Python**, **JavaScript**, **React**, **Resend**, **R**, **C++**, **Java**, **Matplotlib, AI/ML/DM**, **Data Analysis**, **Data Visualization**. **MySQL**, **PostgreSQL, Excel**, **Pandas**, **NumPy**.
  o **Marketing Research/Market Research**, **Marketing Strategy**
  o **Bilingual: Mandarin, English.**