Bryce Wang

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SKILLS

- **Generative AI**: Skilled in developing multi-agent systems and LLM-integrated applications using LangChain, LangGraph, Streamlit, and Flask. Familiar with prompt engineering and LLMs fine-tuning with PEFT.
- **Machine Learning & Deep Learning**: Proficient in designing and implementing ML/DL/NLP models using PyTorch, TensorFlow, Scikit-learn, PySpark, and Transformers (Hugging Face).
- **Causal Inference & Applied ML**: Proficient in statistical modeling and policy evaluation, including RCTs, DID, PSM, RDD, SCM, and Causal Forests (CausalML, EconML).

EDUCATION

San Jose State University, San Jose, CA 08/2022 - 05/2024
Master of Science in Applied Data Science
Peking University, Beijing, China 09/2015 - 07/2018
Master of Science in Computer Technology, Graduation with Honors

WORK EXPERIENCE

Data Analyst 09/2021 - 07/2022; 02/2025 - 08/2025
Stanford University | Stanford Center on China's Economy and Institutions Palo Alto, CA

- Built 3 real-time MySQL dashboards to monitor the delivery of large-scale ECD interventions across over 300 rural villages in China, enabling remote oversight and significantly improving operational efficiency.
- Provided data cleaning, wrangling, and machine learning modeling support for researchers, streamlining data analysis workflows and accelerating empirical research across multiple projects.

Data Analyst 11/2019 - 10/2021
Peking University | China Center for Agricultural Policy Beijing, China

- Cultivated a scalable digital survey platform on Tencent Cloud and Alibaba Cloud, still actively continues to support 30+ large-scale surveys and 200,000+ interviews; reduced operational costs by over 50%
- Led and coordinated 160 enumerators to complete high-quality field data collection of 20,000+ rural households.
- Co-authored 3 peer-reviewed academic papers based on empirical research and data-driven insights.

MACHINE LEARNING PROJECTS

- Sales Chatbot (showcased on **Techequity-ai 2024 AI Summit):** Led the development of a virtual sales assistant with LangChain and GPT-4 and achieved an exceptional QA accuracy of 98.9% for customer service on beauty products.
- **XPathAgent** (current research project): Utilized the advanced planning and reflective capabilities of LLM agents to innovatively generate general-purpose XPaths, enabling efficient extraction of target information from web pages.
- Developing a suite of LLM-powered simulations—**MamaVillage**,
- **LLM agents Play Games**,
- and **Leviathan**—to explore intergenerational caregiving, strategic competition, and emergent governance in complex social systems. Simulated real-world social dynamics using LLM agents to model real-world social dynamics and decision-making.