Jingyuan Liu

(+1)8576059608 | ljjjuan@bu.edu
https://juanliu27.github.io/|www.linkedin.com/in/jingyuan-liu-jessie

EDUCATION

Boston University, Faculty of Computing & Data Sciences September 2024 – January 2026
Major: Master of Data Science, Cumulative GPA: 3.71/4.0
Course: Tools for Data Science (4.0), Data and Ethics (4.0), Topics in Data Science Methodology (4.0).

University of International Business and Economics, School of Information Technology & Management
Major: Data Science and Big Data Technology, Cumulative GPA: 3.47/4.0. September 2019 – June 2023
Course: Python (4.0), Machine Learning and Data Mining (4.0), Big Data Analysis (4.0), Matlab Application (3.7).

INTERNSHIP

Just Horizons Alliance (JHA), Research Assistant June 2025 –Present

- Co-developed an ethics-oriented LLM benchmark (AIEI), inspired by HELM, using a hierarchical tree-based design to assess model behavior across ethical, transparent, fair, safety, etc. dimensions.
- Designed evaluation criteria and scoring mechanisms, constructed new dataset and introduced a temperature-based multi-level testing to capture creativity variance and improve score richness.
- Implemented end-to-end evaluation pipelines across multiple model environments, conducting systematic testing and automated scoring on local LLMs (e.g., LLaMA) and API-based systems (e.g., Gemini).

Institute of Automation, Chinese Academy of Sciences September 2023 – March 2024
Research Assistant on an NLP-centric MultiModal Biological Experiment Agent

- Crawled over 20,000 protocols from journal websites using BeautifulSoup and performed EDA, visualizations of data demographics using pandas, matplotlib, and seaborn.
- Customized a protocol generate agent using LangChain framework with few-shot learning for prompt design.
- Built a KBQA System leveraging markdown-formatted data, Faiss and keywords embedding for recall rate.

PROJECTS

How do Terms of Service Influence Social Media User Dynamics March 2025 – January 2026

- Integrated Value Sensitive Design and Social Amplification of Risk Framework to study how platform policy changes are translated into collective responses, formalizing privacy anxiety as an intermediate.
- Collected and analyzed 3 months of social media metadata and Terms of Service updates, applying LLM-assisted textual analysis and topic modeling to track policy-driven shifts.
- Compared risk metrics (e.g., Risk–Nonrisk Engagement Ratio = 3.77, showing privacy-risk content received 4× higher engagement), and visualized using time-series plots, bar charts, and diffusion diagrams.

Bias Detection in Social Media Content September 2024 – May 2025

- Deployed Azure data architecture using Azure Resource Manager, creating resources and building batch (SBIC) and hourly streaming (Bluesky API) ingestion pipelines within a medallion architecture.
- Trained a BERT-based classifier for gender/racial bias detection on batch data with an average accuracy of 88.62%; implemented Azure Functions and Azure ML endpoints for real-time inference on streaming data.
- Developed interactive PowerBI dashboards for batch and streaming data with 6-hour refresh cycles, cross-report capability, and Key Influencer visuals, enabling near real-time insights and demographic analysis.

SKILLS

Programming: Python (NLP, Web-scraping, Scikit-learn, Matplotlib, Seaborn), MATLAB, R, Java, C++, SQL.
Software: Tableau**,** Power BI, Azure, Gephi, Vensim, UIBOT, Google Looker Studio.