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Weining Mai

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EDUCATION

Boston University, Boston, MA
B.S. Data Science (Thomas Menino full-tuition scholarship) Sep. 2020 — May. 2024

SKILLS

Programming Skills	Python, R, SQL, PowerBI, Anaconda, Docker, Podman, GCP, JavaScript, MongoDB, Git Version Control, Containerization, Kubernetes
Libraries/Frameworks	Tensorflow, Pytorch, Sklearn, Pandas, Langchain, Streamlit, NumPy, Plotly, Flask, FastAPI, Ollama
Communication	Notion, Slack, Trello
Relevant Courses	NLP, Software Engineering on Cloud, Machine Learning, Deep Learning, Statistic, Data Engineering

SELECTED PROJECTS

Visual Language Translator May. 2024 — May. 2024
Github

- Extracted semi-structured data and translated text from images in multiple languages, enhancing accessibility for global users.
- Developed a web application to translate text from images using Streamlit and the GPT-4o model.

BU AI Tour assistant Apr. 2024 — May. 2024
Github

- Initiate the project to develop AI campus tour assistant, finetuning TinyLlava model to deliver personalized experiences.
- Designed a user-centric AI visual Q&A app with open-source Llava, boosting interactivity through Streamlit.

Automate Finance LLM Mar. 2024 — Apr. 2024
Github

- Developed a finance automation app using Ollama, LangChain, and OpenAI, integrating real-time data from Yahoo Finance.
- Designed a full-stack application with Streamlit and Mistral-7b language model, reducing manual financial analysis time.

Monte Carlo Stock Price Analysis Feb. 2024 — Mar. 2024
Github

- Enhanced investment strategy using Monte Carlo Simulation on stocks, improving portfolio returns and investment decisions.
- Collected data from Yahoo Finance API, focusing on Value at Risk and Expected Tail Loss metrics.

TECHNICAL EXPERIENCE

Machine Learning Engineer Intern Sep. 2023 — Dec. 2023
Boston University *Boston, MA*

- Designed an RAG LLM system with a non-profit organization to summarize Massachusetts legislation for broader audiences.
- Employed LangChain and GPT-4 to build the LLM system, and Streamlit to enhance user functionality.

Data Science Intern Jun. 2022 — Aug. 2022
Boston University *Boston, MA*

- Developed an environmental heatmap of Boston, providing insights into the city's progress toward carbon neutrality by 2030.
- Preprocessed data from SQL databases to analyze Boston court data using Pandas, reported findings of injustices to journalists.

Finance IT analyst Intern Oct. 2019 — Aug. 2020
Liberty Mutual *Boston, MA*

- Analyzed large-scale financial data sets in Excel, using PivotTables to derive actionable insights.
- Transformed financial data into interactive dashboards with Power BI, effectively presenting findings to stakeholders.

INTEREST & LANGUAGE

Interests: Hiking | Software Design | Artificial Intelligence | Photography | Traveling
Languages: English | Mandarin | Cantonese