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Weining Mai

Github
Linkedin
Medium

EDUCATION

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

SKILLS

Computer Skills	Python, R, SQL, Git, PowerBI, Anaconda, Docker, GCP, JavaScript, MongoDB
Libraries/Frameworks	Tensorflow, Pytorch, Sklearn, Pandas, Langchain, Streamlit, NumPy, Plotly, Flask, FastAPI
Machine Learning	Random Forest, XGBoost, linear, logistic, K-means clustering, Feature Engineering, NLP

SELECTED PROJECTS

- Automated Resume Screening Tool**
Github

Nov. 2023 — Dec. 2023

 - Developed a LLM system for detailed candidate insights by analyzing resumes against job descriptions
 - Achieving a 59% average cosine similarity between candidate profiles and job postings
- Email Response Automation**
Github

Oct. 2023 — Nov. 2023

 - Enhanced email response efficiency by implementing a LLM system using GPT4
 - Resulted a 32% reduction in the time spent on reading and writing emails
- Software Engineering On Google Cloud**
Github

Sep. 2023 — Oct. 2023

 - Provisioned a Virtual Machine optimized for hosting a Flask web application and processing HTTP requests
 - Designed a SQL database in 2nd Normal Form for storing and analyzing HTTP request data
- Predicting Customer Churn**
Github

Jul. 2023 — Aug. 2023

 - Conducted analyses to understand customer churn patterns and developed retention methods
 - Utilized Streamlit for UI development and employed XGBoost to create classifiers achieving 83% precision and recall
- GPT DocuAssist**
Github

May. 2023 — Jul. 2023

 - Deployed a LLM system with Retrieval-Augmented Generation to efficiently answer questions about PDF documents
 - Attained 89% accuracy in responding to documents using a specialized LLM system

TECHNICAL EXPERIENCE

- AI engineer**
Boston University

Sep. 2023 — Dec. 2023
Boston, MA

 - Collaborated with MAPLE to design an RAG LLM system for summarizing and classifying bills in Massachusetts legislation
 - Implemented prompting techniques, achieving 92% factual consistency, enhancing summary trustworthiness in LLM system
- Data Science Intern**
Boston University

Jun. 2022 — Aug. 2022
Boston, MA

 - Created environmental heatmap of Boston and investigated Boston's progress toward carbon neutrality
 - Extracted data from SQL database, conducted preprocessing, and performed feature engineering on Boston court data

INVOLVEMENT & AWARDS

Interests
Video Games, Hiking, Software Design, Artificial Intelligence, Photography, Traveling
Languages
English, Mandarin, Cantonese