Ming Zhe Teo

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WORK/PROFESSIONAL EXPERIENCE

Luxoft
Data Engineer (Temasek)
Jun 2024 – Current

- Developed and managed ETL/ELT processes to ensure accurate and timely data flow. Implemented automation scripts to enhance the efficiency and scalability of data ingestion.
- Created user-friendly Tableau dashboards that present complex data in clear and actionable formats. This significantly improved user experience and interactivity while reducing latency.
- Enhanced the efficiency of data pipelines and the responsiveness of dashboards, resulting in a better user experience.
- Maintained high standards of data accuracy and reliability through rigorous validation practices.

Cynapse
AI Software Engineering Intern
Oct 2023 – Mar 2024

- Automated synthetic dataset generation by developing a data pipeline leveraging stable diffusion and LLAMAs for creating multimodal person attribute datasets.
- Utilized AWS SageMaker to streamline training for a sophisticated multimodal Generative AI model tailored for person search within CCTV surveillance databases, implemented using Python.
- Enhanced dataset adaptability by augmenting data structure, ensuring superior generalization across diverse use cases.
- Implemented prompt engineering techniques to optimize descriptive text generation for model training, resulting in significant model improvement.

TUV SUD PSB
HR Analytics Intern
Nov 2022 - May 2023, Apr 2024 – May 2024

- **Best Internship Award Winner (2023):** Honored for improving reporting processes.
- Created detailed annual HR reports for management, supporting strategic decisions with data-driven insights.
- Developed a dynamic Excel dashboard for real-time data exploration, enhancing user experience and analysis efficiency.
- Collaborated across regions and departments to define data requirements, ensuring accurate and insightful data representation in reports and dashboards.

EDUCATION

University of London
BSc (Hons) in in Computer Science (Machine Learning and Artificial Intelligence)
Aug 2017 - Sep 2023

SKILL/CERTIFICATION

AWS Certified Cloud Practitioner, Python, Pandas, Scikit-learn, Pytorch, Tensorflow, Flask, Go, Gin, Fiber, MongoDB, Docker, PostgreSQL, MySQL, Git, Window, Linux, Vercel, Snowflake, Streamlit, Tableau

PROJECTS

Comic Tracker Bot
PostgreSQL, Vercel, Go

- A Comic Deal Tracker Bot built in Go and integrated into a Telegram bot using Vercel serverless functions and Neon PostgreSQL

Damage Detection
Tensorflow, Python

- Fine-tuned a deep learning model using transfer learning and grid search techniques to achieve approximately 92% accuracy in damage classification.

Sentiment Analysis
Python, Selenium, bs4

- Conducted sentiment analysis on data collected from Twitter, Reddit, and news webpages using Selenium and BS4, followed by visualization through charts and graphs.