Yaow Hui Chong

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LinkedIn | Portfolio | Personal Website

EDUCATION

University of Nebraska Omaha, Omaha, NE

M.S. in Management of Information System (MIS), May 2022

Concentration: Data Analytics   GPA: 3.92/4.00

University of Nebraska-Lincoln, Lincoln, NE

B.S in Business Administration, May 2018

Major: Actuarial Science   Minor: Mathematics   GPA: 3.77/4.00

WORK EXPERIENCE

University of Nebraska-Lincoln, Lincoln, NE

Data Analyst, January 2022 – Present

- Led the end-to-end development and deployment of ML/DL models, facilitating utility usage predictions and anomaly detection.
- Designed and implemented 10+ CI/CD data pipelines, facilitating data collection from multiple sources and data ingestion into date warehouse for business intelligence and reporting.
- Built and maintained Tableau dashboards and reports to meet business requirements, ensuring streamlined access to key insights and actionable data visualizations.
- Collaborated closely with cross-functional engineering and IT teams to uncover data patterns and translated these insights into actionable recommendations, driving data-driven decision-making processes.
- Conducted hypothesis testing on equipment performance to ensure compliance with standard requirements.

University of Nebraska Omaha, Omaha, NE

Graduate Research Assistant, August 2020 – August 2021

- Assisted professors to conduct comprehensive literature reviews, summarizing existing research and charting the course for future research directions.
- Analyzed datasets in experiments and generated insightful data visualizations and descriptive statistics, significantly contributing to research initiatives.

Kingsbay Group, LLC, Des Moines, IA

Purchasing Analyst, November 2018 – December 2019

- Conducted thorough cost analysis to ascertain the product profitability for more than 500 products.
- Built time-series ML models to forecast future sales, ensuring timely and efficiently item replenishment.

Projects

- **Stock Price Prediction ETL Pipeline:** Set up a scalable ETL pipeline to extract daily stock price of some mega cap stocks using Polygon.io API, orchestrated with Apache Airflow on an EC2 instance. Integrated with Facebook's Prophet model for stock price prediction for the next 5 days and visualize the results on my personal website using Plotly.js.
- **Personal Website:** A personal website deployed on EC2 instance to explore the applications of machine learning algorithms on Natural Language Processing (Sentiment Analysis and Chatbot), Computer Vision (Image-To-Text), and Time Series (Stock Price Prediction).

CERTIFICATIONS

- Associateship of Society of Actuaries, SOA, April 2023
- Azure Data Engineer Associate, Microsoft Certified (September 2024 – September 2025)
- Google Advanced Data Analytics Certificate, Coursera, August 2024

SKILLS

Programming: SQL (MySQL, T-SQL, PostgreSQL), Python (Pandas, SciPy, Scikit-Learn, TensorFlow, Hugging Face), R, Java, HTML, VBA

Cloud: AWS, Azure, GitLab, Spark/Hadoop

Visualization: Tableau, Power BI, Matplotlib, Seaborn, Plotly

Other Technologies: Tableau, Apache Airflow, Apache Kafka, Linux, Git, Docker, REST API, Excel, Vue.js, Django, Flask