Tay Xun Yang

+65 82184129 | gratzxy@gmail.com | Singapore Citizen | Linkedin | Github

EDUCATION

National University of Singapore	**Singapore**
Bachelor of Science in Business Analytics (Hons)	Aug 2020 – July 2023
Ngee Ann Polytechnic	**Singapore**
Diploma in Information Technology, Business & Data Analytics Specialization	Apr 2015 – May 2018

EXPERIENCE

Ministry of Finance   **Singapore**
Security & Resilience Intern   Nov 2022 – Dec 2022
- Use Tableau to perform descriptive analysis on Singapore Government ICT expenditure to understand trends and relationships within the data, and to identify opportunities for cost savings and efficiency improvements
- Extract data from multiple sources, transform it into a consistent format and load it into a central repository for analysis and reporting.

PSA Corporation Limited   **Singapore**
Data Analyst Intern   May 2022 – Oct 2022
- Use machine learning and natural language processing (NLP) techniques with Python to forecast SQL query resource usage and optimize server performance. This involves predictive training models on historical data and using NLP to process and analyse SQL query logs.
- Design and develop a Python-based auto-recovery program that automatically detects and rectifies job scheduling failures in real time. The program will use rule-based algorithms to identify the root cause of failures and take corrective action, ensuring that jobs are completed successfully.
- Use statistical techniques and machine learning methods, such as clustering and outlier detection, to identify anomalies in our dataset. This will involve training predictive models on historical data and using them to detect unusual patterns in new data

Motorist PTE LTD   **Singapore**
Business Analyst Intern   May 2021 – Oct 2021
- Build a VAR model to capture the dynamic relationship between COE and resale car value in Singapore.
- Develop a web scraping script using Beautiful Soup and Selenium to extract data from automotive websites
- Build an ETL pipeline using Python and Google Cloud technologies to process datasets in batch mode.

PSA Corporation Limited   **Singapore**
Data Analyst Intern   Mar 2017 – Aug 2017
- Conduct interviews with key stakeholders to gather user requirements for the data quality assurance project. The interviews focus on identifying the needs and expectations of users, business objectives and constraints that need to be considered in the design and implementation of the project.
- Develop a Python script that performs data validation on the daily incoming files. The script will use statistical techniques to detect and correct errors and inconsistencies in the data, ensuring that it is accurate and consistent before it is loaded into the database.
- Build and maintain PowerBI dashboards to provide real-time visibility into key business metrics & KPI

SKILLS

Languages: English and Mandarin (Spoken and Written)
Data Visualization Software: Tableau, Qlik Sense, D3.js, Google Data Studio, PowerBI,
Tools: Airflow, Git, Docker, Jira
Technical Skills: Time Series Analysis, NLP, Machine Learning, Deep Learning, Data Scraping
Programming Skills:
- Python (NumPy, Pandas, Scikit-learn, Tensorflow, Matplotlib, BeautifulSoup, Selenium)
- SQL (MySQL, SQL Server, Google Bigquery, MongoDB)
- Others (R, JavaScript, Java, C#)

PROJECTS

Instagram Influencer Analysis | Python   Dec 2021
- Scrape Instagram influencer posts with Selenium and build features from the textual data
- Train a Machine Learning Model to classify posts as sponsored or not sponsored post

CERTIFICATIONS

Certificates: Deep Learning Specialization, Monetary Policy Analysis and Forecasting, Social media Analysis using R, Government Finance Statistics, Financial Market Analysis