Tan Yan Chong

Data Analyst

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About me ─────

People always ask if I use Python or R.I prefer R in statistics, visualizations, dashboard creations and presentations. My case for Python is for machine learning, data wrangling and data scraping.

Professional Experience

| 2020- | Data Analyst | COMO Group of Companies |

Singapore
- Wrote SQL queries to create views of de-normalized transactional data in for analysis, and extracted them into R/Python using dbplyr and pandas
- Scraped external data sources using rvest/selenium/beautifulsoup on websites for collection in servers
- Extracted Google Analytics to a server for collection using Google API in Python
- Merged data from different sources and related them using tidyverse, data.table and pandas for analysis
- Built jobs in taskscheduleR and dbplyr for daily lazy checking to maintain data quality across sources
- Scripted fuzzy matching of customers data with external vendors for cross-mapping
- Clustered customers into segments for campaign targeting to enhance campaign yield
- Regressed campaign performance to determine associations of behaviour with outcome
- Established association rules to identify patterns for cross product dependencies
- Developed Tableau/R dashboards in shinyapps.io for business users to enhance data enablement among business units
- Built interactivities in dashboards using actions in Tableau and presented analysis results with shinyApps/ggplot on Rmarkdown hosted on shinyapps.io
- Guided business analysts in the application of data to solve business questions and on planning of experiments
- Set up organization's Github account, integrated Git with R/Python/SQL and implemented version control

| 2018-2020 | Business Intelligence and Reporting Analyst | Edenred Singapore |

Singapore
- Wrangled data from all sources for reporting using stored procedures and SSIS
- Performed point simulations to optimize tiering structures for CRM programs
- Structured the data and built the dashboards for eDM campaigns across all vendors in Tableau

| 2017-2018 | Monitoring Executive | Sunseap Group |

Singapore
- Built the reporting database on MySQL and migrated past historical data from Excel to MySQL
- Automated billing process and enabled instantaneous reconciliation of data across varied sources in R
- Used outlier detection for rapid identification of sites performing poorly for rectification

| 2017 | Solar Monitoring Intern | Sunseap Group |

Singapore
- Implemented sizing optimization and business profitability analysis for battery technology using Excel VBA
- Performed data analysis using Tableau to seek patterns through visualization
- Researched on possible directions in Singapore's carbon tax policy, and identified opportunities to enhance the reach of solar energy in Singapore

Education

| 2020-2023 | Masters of Analytics | Georgia Institute of Technology |
| Georgia, United States |

| 2019-2020 | Advanced Diploma in Data Analytics & Machine Learning | Singapore Management University |
| Singapore |

| 2012-2017 | B.Eng (Chemical Engineering), Honours with Distinction | National University of Singapore |
| Singapore |

Certification

| 2019 | Tableau Desktop Certified Associate | Tableau Software |
| Singapore |

| 2015 – | Diplôme d'études en langue française DELF B2 | Ministère de l'éducation nationale |
| France |

| 2017 – | SAP Certified Associate – Business Process Integration with SAP ERP 6.0 EhP6 | SAP |
| Singapore |

Skills

- R
- Python
- SQL (Vertica, Microsoft SQL, MySQL, PostgreSQL)
- Tableau Desktop
- MATLAB
- Google Analytics
- Power BI Desktop
- SSIS