CLARENCE SAN

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ACADEMIC QUALIFICATIONS

SINGAPORE MANAGEMENT UNIVERSITY   **Jan 2022 - Jun 2023**
Master of IT in Business (Analytics)
- GMAT 750 (98th percentile), GPA 4.3 / 4.0, Dean's List, SAS Institute Top MITB Student Award
- Coursework: Algorithm Design, Applied Statistical Analysis, Applied Machine Learning, Big Data Techniques, Data Science for Business, Deep Learning and Computer Vision, Machine Learning Engineering, Text Analytics, Spreadsheet Modelling

UNIVERSITY OF MICHIGAN (ONLINE)   **Sep 2020 - Dec 2020**
Pg. Dip Applied Data Science with Python, A+ (95%)
- Coursework: Applied Statistics, Machine Learning, Data Visualisation, Natural Language Processing

UNIVERSITY OF MELBOURNE   **Dec 2016 - Dec 2018**
Bachelor of Arts (Media and Communications, Law and Justice)
- Weighted Average 80.875 (First Class Honours), Dean's List
- Recipient of the Leaders in Communities Award; Student Ambassador for the Faculty of Arts and Social Science

EXPERIENCE

FOODPANDA - Singapore   **Jan 2022 - Present**
Quick-Commerce (Food and Groceries) Platform
Senior Data Analyst
- Designed and implemented a relational data warehouse using BigQuery and dbt – reduced computational requirements of data pipelines by more than 10% and introduced automated testing and documentation as code for 100+ models.
- Built and managed reporting dashboards using Tableau and Looker Studio, consisting of >50 SQL queries for 11 markets in the APAC region – wrote and automated a python script to send out weekly emails to 15+ key stakeholders.
- Wrote, open sourced, and maintained a python library to convert SQL queries from BigQuery dialect to dbt jinja syntax, conducted training sessions and rolled out tool across the APAC region, reduced time to write dbt models by ~5 minutes.
- Developed a process to automate monthly presentations using google apps scripts; rolled out solution to 11 markets. Reduced time spent on querying data and monthly reporting from 4 hours to 30 minutes.
- Managed a large-scale source migration of >200 dbt models with 0 incidents; eliminated timeout errors by refactoring dbt models; identified and deprecated 40+ redundant models, saving >$300 USD in monthly cloud expenses.
- Finetuned a LLM-based solution using transformers to generate descriptions for 1500+ products, reduced manual efforts >80%.

KANTAR MILLWARD BROWN - Singapore   **Aug 2019 - Jan 2022**
Data Analytics and Consulting firm
Advanced Analytics Associate
- Promoted twice within two years. Developed analytical models from inhouse and mined data: methodologies included Structural Equation Modelling, Regression, Classification, Segmentation, Tree-based Ensembles, and Marketing Mix Modelling.
- Conceptualized and spearheaded an APAC-wide knowledge session on improving Microsoft Excel workflows with 500+ attendees; received 92% strong recommendation scores in post-session survey.
- Instituted an Analytics repository of >20 Python, R and VBA scripts to streamline workflow efficiency and reduce time required for menial checks by more than 80%.
- Applied Dynamic Linear Regression based models 4 product category landscapes in the FMCG space for a global dairy player, developed Power BI dashboard to guide 2-year roadmap based on pricing and distribution, led to 20% budget optimization.
- Conducted a multi-country factor analysis (5 markets) to decompose global brand equity into manageable dimensions for a global cosmetics player, simplified decision-making process from 25 factors to 5.

PROJECTS / EXTRA-CURRICULAR ACTIVITIES

- Deep Learning for Object Detection Datature Hackathon – 1st place – trained one stage (YOLOv5, RetinaNet) and two stage object detectors (Faster R-CNN) and presented a working proof of concept to improve existing insurance claims processes
- Singapore Armed Forces Officer: Lieutenant at a 500+ person guards battalion, received best combat unit for the 16th intake
- United Nations Volunteer: Mapped 500+ buildings and 30+km of rural Tanzania to protect girls from FGM

ADDITIONAL

- Competencies: Python, R, SQL, Scala, MySQL, PostgreSQL, SQL Server, SPSS, SAS, Tableau, Power BI, VBA, Office
- Cloud / Frameworks: GCP, AWS, Airflow, PySpark, Pytorch, Tensorflow, Dask, Jupyter Labs, Bash Scripting, Anaconda
- Datacamp Certification Tracks (148 courses completed): Python Programmer, Machine Learning Scientist with Python, Data Scientist with Python, Data Engineer with Python, SQL Server Fundamentals, Analyst with R, Statistician with R