

Vincent Toong

Data Enthusiastic

Experienced Data Scientist with a strong engineering background, specializing in delivering high-impact data solutions across industries. Skilled in deploying AI-driven models and analytics frameworks on cloud platforms to optimize processes. Recognized for spearheading projects that enhance operational efficiency and drive measurable outcomes.

EXPERIENCE

Air Selangor, Kuala Lumpur, MY

Senior Data Scientist

June 2023 - Present

- **Large Language Model Deployment:** Built and deployed a small-scale production chatbot using Azure Databricks for model inference. Integrated open-source large language models to provide conversational capabilities, enabling streamlined document querying and content retrieval for internal knowledge management. Implemented a front-end interface using Streamlit for a user-friendly, interactive experience, allowing team members to easily access and interact with the chatbot in real time.
- **Demand Forecast and Supply Availability Dashboard:** Led the design and implementation of a scheduling and prediction system for water supply and demand using Azure Data Factory and Azure Machine Learning. Developed a dashboard that significantly improved cost savings through accurate long-term forecasting and enhanced disaster response strategies.
- **Modified Water Quality Index:** Initiated and executed the creation of a new water quality index using Databricks and Random Forest regressor, focusing on reflecting accurate water conditions. This initiative aided in negotiations for water tariff increases, boosting potential revenue by 8-10%.

Tencent Games (Outsourcing company by Beyondsoft (Malaysia) Sdn. Bhd.), Kuala Lumpur, MY

Data Scientist

March 2022 - June 2023

- **Predictive Anomaly Detection System:** Established an automated anomaly detection and notification system using Airflow, Prophet, and XGBoost, integrated with visualization in Tableau. Enhanced user satisfaction by 15% through timely notifications and interventions, preventing disruptions in game item/money production.
- **User Behavior Analytics:** Analyzed comprehensive user behavior data from sign-up through playtime to detect abnormal activities and identify engagement patterns. Developed predictive models and analytics that improved user experience and retention rates through targeted support strategies.

S&P Global (Previously known as IHS Markit), Penang, MY

Data Transformation Analyst

January 2020 - March 2022

- **Accuracy and Completeness Dashboard:** Improved the accuracy and completeness of a global database by using object detection to identify discrepancies against satellite imagery. Developed a dashboard that achieved near 100% data accuracy in Asia, significantly surpassing competitor benchmarks and enhancing data quality.

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SKILLS

Python
SQL
Hadoop (PySQL, Spark, Airflow)
Microsoft Azure
Databricks
Tableau/PowerBI
Stakeholder requirement
Prioritisation
Problem Solving

EDUCATION

UCSI University

Bachelor of Engineering:
Chemical Engineering

Sep 2018

Kuala Lumpur, MY

- **Awards:** Dean's List 2017 (Top 10%).
- Completed one semester abroad with TsingHua University.

OTHER

- Attended project management training organised by IHS Markit.