VIVIAN SYLVIA TING

Data Engineer

PROFILE

I am a logical and hardworking mathematics lover with a passion for data and analysis. I possess communication skills and always ensure that the work completed on time and to a high standard.

Seeking a challenging role that involve data engineering, cloud-based data solutions, and the integration of machine learning and AI to drive insightful decision-making and innovative solutions.

CONTACT

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WORK EXPERIENCE

Plaza Premium Group - [Data Engineer]
Feb 2023 – Present
- Manage cloud-based enterprise data warehouse in Snowflake.
- Design data models for BI and analytics purpose using Power BI.
- Designed and developed ETL pipelines that integrate data from Data Lake using Power Automate and AWS for daily runs.
- Data transformation from raw data to clean data using Databricks and Snowflake.
- Machine learning to support in decision-making using R and Python language.

Centre for Social Infrastructure Research (CSIR) - [Research Trainee]
Jul 2021 – Sep 2021
- COVID-19 data collection and data entry.
- Demographics catchment analysis by using Excel.
- Market study in certain areas in Selangor.
- Support in developing a health-screening platform.

TECHNICAL SKILLS AND TOOLS

- **Data Collection:** APIs, databases, web scraping.
- **Data Pipeline Development:** Design pipeline to automate process of data collection, transformation. *Use Power Automate to trigger files through email and MS SharePoint. Created ETL pipelines using AWS Step Functions and scheduled automated workflows with AWS EventBridge.*
- **Data Transformation:** Clean raw data and transform data to readable data. *Use Databricks to handle data transformation and AWS Lambda to support pipeline.*
- **Data Storage:** Store structured and unstructured data in warehouse. *Data are stored in AWS S3 and Snowflake.*

- **Data Integration:** Integrating data from various sources into own systems. *Use Snowflake to create external table, fact table and view to combine different types of data stored in AWS S3.*
- **Data Modeling:** Build data models to easier managing certain types of data and analysis. *Modeled data relationships in Power BI using star schema, connecting dimension tables to fact table.*
- **Data Visualization:** Build dashboards and reports to present data and insights using Power BI.
- **Languages, Tools and Platforms:** R, Python, SQL, PySpark, RStudio, VS Code, Azure, AWS, Databricks, Snowflake, Power BI, MS Fabric.

EDUCATION

University Technology Malaysia
Sep 2018 – Jul 2022

- Bachelor of Science (Mathematics), first-class honors with CGPA 3.81.
- FYP Thesis: Forecasting Temperature in Cameron Highlands by using SARIMA and ANN models.
- Time Series Forecasting, check trend, seasonality and stationarity of data.
- Scripting using R for SARIMA and ANN models.
- Calculation, visualize and forecasting using Excel and R.

ACHIEVEMENTS

International Competitions and Assessment for Schools (UNSW Global Australia) (2016)
Top13% of Form 5 & Lower 6 participants in Malaysia, achieved Credit.

STPM (2017)
CGPA 3.33, A in Mathematics (T), B in Physics.

MUET (May 2017 – May 2022)
Band 4.

Sustainable Entrepreneurial Mindset Showcase (SEMS) (Apr 2019)
Best category award in Clean Water and Sanitation.

Xiamen University Malaysia Mathematics Competition (Jun 2019)
Represent UTM participated in Olympiad Mathematics Competition.

Simon Marais Mathematics Competition 2020 (Oct 2020)
Represent UTM participated in international mathematics competition.

Esports Uni-League 2020 (Oct 2020 – Nov 2020)
Represent UTM, leader of HOK team and achieved 3rd runner up.

The Covid-19 in My Eyes (Dec 2020)
Photo shooting competition, event organizer.