FAN CHIN WEI

DATA SCIENTIST/DATA ANALYST

CONTACT

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Currect City: Batu Pahat, Johor

https://stephenfan97.github.io/Portfolio-Project/

EDUCATION

2023 - 2024
UNIVERSITY OF TECHNOLOGY MALAYSIA

- Master of Science, Data Science
- CGPA: 3.93 / 4.0

2016 - 2020

UNIVERSITI TUNKU ABDUL RAHMAN

- Bachelor of Engineering of Electrical and Electronic Engineering

SKILLS

- Project Management
- Software skills like PowerPI, MongoDB, SQL, Python, Powerpoint, Words, Excel
- Teamwork
- Time Management
- Critical Thinking

LANGUAGES

- English
- Mandarin
- Malay

PROFILE

Dynamic Data Analyst with hands-on experience in engineering and a Master's in Data Science. Over 1 years of experience in statistical analysis, predictive modeling, and data visualization using tools like Power BI. Achieved a high CGPA of 3.93/4.0 while developing machine learning models and managing ISO documentation. Committed to leveraging analytical skills and technical expertise to drive data-driven insights and support business decisions.

WORKS EXPERIENCE

Universiti Technologi Malaysia 2023 - 2024(GRADUATED)

Master of Science, Data Science

- Proficient in statistical analysis, hypothesis testing, and predictive modeling to extract actionable insights and support data-driven decision-making
- Experienced in designing, developing, and implementing machine learning models (supervised and unsupervised) for forecasting, classification, and clustering applications
- Skilled in SQL for data extraction, cleaning, and transformation; experience with relational and NoSQL databases
- Expertise in data visualization tools like Power BI to effectively communicate findings and complex analyses to stakeholders

Pepperl+Fuchs Asia Pte Ltd 2022 - 2023

Fixtures & Tools Engineer

- Fully responsible to respond the breakdown and diagnosing fault findings
- Works involves checking, repairing, servicing the fixture & tools used in production
- Planning & undertaking scheduled maintenance
- Participate in cost reduction activities involving fixture & tools modification or improvement

Kaifa Technology Malaysia Sdn Bhd 2020 - 2022

Equipment Engineer

- Perform equipment installation, setup, equipment sustaining, troubleshooting & improvement projects
- Fully responsible for machine up time & readiness for production
- Liaise with manufacturing departments & ensure scheduled PM is performed within the desired time frame
- Prepare & maintain documentation, control plan, FMEA, & other ISO related document

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PROJECT DESCRIPTION

- **Supermarket Sales Analysis - PowerBI** Search

  - Analyzed supermarket sales data from 1000 active sales data and used the insights to identify trends, patterns, factors influencing sales performance.
  - Conducted using Power BI to ensure data quality, detect patterns, and prepare it for analysis and visualization.
  - Achieved highest net sales in January and significant sales spikes between 6–7 PM in Net Sales Performance dashboard.

- **Store Sales Analysis - Data Mining Python** Search

  - Analyzed stores ales dataset contains 19,415 rows and 3 columns with no null values.
  - Visualizations shows top 10 most and least frequently purchased items & Top 10 most frequently visited members.
  - Applied Apriori and FP-growth algorithms to identify frequent itemsets and generate association rules.
  - FP-growth demonstrated faster execution with identical results to Apriori.

- **Student Performance Analysis - R Language** Search

  - Analyzed stores sales dataset contains 1000 rows and 8 columns with no null values.
  - The student performance in exams dataset is chosen to investigate the component that influenced the performance outcome
  - Applied Hypothesis Testing, Anova, Chi-Square Test, Goodness of Fit Test, Correlation and Regression method in this dataset.
  - These factors like gender of the student, the level of academic achievement of the student, and the class that the student was taking that influence student performance..

- **Olist E-commerce Analysis - SQL Language** Search

  - Analyzed Olist sales dataset contains information on 100,000 orders placed between 2016 and 2018 on several Brazilian marketplaces.
  - Olist uses the data to better understand long-term sales trends, identify peak times, and allocate resources.
  - Applied SQL & NOSQL database methods used in this dataset.
  - NOSQL database demonstrated number of benefits over conventional SQL databases when handling Olist data.
  - Olist can benefit from the scalability, robust aggregation capabilities, document-oriented storage, and scalable indexing offered by NoSQL databases like MongoDB by utilising them.