

YAP WEI HAU

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SKILLS & ABILITIES

Familiar with programming (Python, SQL, C#, NI LabVIEW)

Data Manipulation & Visualization (Tableau, Numpy, Pandas, Matplotlib)

Machine Learning/Deep Learning (PyTorch, Sci-kit Learn, Neural Network, Transformer)

Exposure to web app deployment on Cloud (Streamlit, Heroku, Render)

Database: MySQL

NOTABLE PROJECTS

May 2023	· Multi-horizon Time Series Sales Forecasting with Deep Learning
	· Built a Temporal Fusion Transformer (TFT), a Transformer-based model
	· Data cleaning and data preparation from scratch based on PyTorch TimeSeriesDataSet format
	· Demonstrated the interpretability of the attention-based DNN model through data visualization
April 2023	· Movie Recommender with Ranking System
	· Built a Collaborative Filtering based recommendation system
	· Integrated ranking algorithm in terms of similarity score to further enhance the system
	· Tweaking the parameters in the ranking algorithm to optimize the performance
	 Deployed the interactive web app and hosted onto the cloud using Render
Jan 2023	· Wine Cultivars Class Classifier Model
	· Ran exploratory data analysis (EDA) on the two datasets from Kaggle
	· Merged two different datasets and trained Machine Learning model to predict wine cultivars
	 Deployed the interactive web app and hosted onto the cloud using Render
June 2022	· Sales Insights Dashboard in Tableau Desktop
	· Applied Aim's Grid which represents real life business decision making process
	· Understand the concept of OLTP, OLAP and data warehouse
	· Performed whole ETL process using MySQL and connect the database server in Tableau Desktop
	· Improved the revenue analysis dashboard to profit analysis dashboard with stakeholder feedback
March 2022	· Stock Market Portfolio Dashboard in Tableau Public
	· Performed data cleaning using Pandas before loading to data source Tableau Public

Provide performance insights of stock portfolio in specified time interval
Allow user to review and make decision on the current stock portfolio

June 2020

- Security Analysis and Construction of Confidence Bits on a Secured Iris Recognition System
 Final Year Project
- Enhanced iris recognition system by generating an additional layer of confidence on the CASIA iris dataset
- Performance evaluation between initial model and enhanced model by performing genuine and impostor comparisons through FAR and FRR

CAREER EXPERIENCE

Mar 2022-Present

- · RnD Data Analyst Akribis Systems Pte Ltd
- · Utilizing Python libraries (Numpy and Pandas) for Data Cleaning and Data Manipulation of all test data sets before storing into MySQL local database
- Implemented Data Mining solution to business problems such as product recommendation to end customers
- Presented product's insights through Data Visualization using Seaborn/Matplotlib to manager for product improvement
- · Developed data pipeline between Tulip cloud web app and MySQL, allowing two-way interactions
- · GitHub implementation for CI/CD

June2020 - Feb2022

- · Software Engineer Fuji Master Engineering Sdn Bhd
- Front-end and Back-end software development with real time Data Cleaning and Data Logging feature in MySQL DBMS
- · Ensured data integrity and resolved data errors before system deployment
- · Ensured and maintained the security of database in the production environment
- · Python OpenCV for in house Vision System development

Oct 2018 - Jan 2019

- · Assistant Production Manager Internship at Injection Molding and Precision company
- · Data collection from machines to analyze the performance of products
- · Performance evaluation through Process Capability Index (Cpk) methodology
- · Fatigue test of products through Gage Repeatability and Reproducibility (R&R)

EDUCATION& CERTIFICATES

June 2016-June 2020

Bachelor of Engineering (Honours) Mechatronics Engineering, Universiti Tunku Abdul Rahman, Malaysia

CGPA: 3.4665

Relevant Coursework: Fuzzy Logic in Artificial Intelligence, Image processing and objects detection

Oct 2019 UTAR Academic President's List

Oct 2017, May 2018, Jan

2019

UTAR Academic Dean's List

June 2017

ICE SC Leadership and Team Building Camp

- \cdot Improve my communication skills with new friends as well as boosting my self-esteem
- · Learn to work with peoples from different universities, thus building teamwork

ADDITIONAL INFORMATION

- · Fluent in English, Mandarin, Malay and German (A1 Level)
- \cdot Passionate in self-improvement in various aspects, e.g., participating in Coursera and Udemy courses.