

Natasya Khoo

- Junior Software Engineer -

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Fresh graduate with work experience and project achievements, eager to learn and achieve more.

PROFESSIONAL EXPERIENCE

SNS Network (M) Sdn.Bhd.

Ipoh, Perak

Software Engineer

May 2023 – Present

Tech Stack: SAP Business One, Django, R, Python

- Involved in system development and enhancement, coding & programming, troubleshooting, system study, system testing and supporting application software and systems.
- Prepare, maintain and update system documentation for data, workflow, logical processes and interface with other systems.
- Training and integrating a suitable Machine Learning model into web application for prediction, forecasting and regression for business use cases.

Key Achievements:

- Implemented Machine Learning to ease the workflow of inventory, sales, HR and other departments by making predictions on sales, demand of products, ABC classification based on SKU and integrate into web applications.
- Wrote R script to retrieve data from SAP Business to be passed and processed by the next layer where data sanitization occurs and Machine Learning model can be applied.

Strateq Systems Sdn. Bhd.

Petaling Jaya, Selangor

Big Data Analyst Trainee

Nov 2022 – April 2023

Tech Stack: Python, Power BI

- Analysing data on business process by identifying inefficiencies and recommend changes that improved efficiency of the services and reduce cancellation rates of the sector.
- Removing any irrelevant or duplicate information from the data set using python. Include removing data from unrelated business task or removing data that may have been entered incorrectly.
- Creating comprehensive documentation using databricks for transformation codes that convert raw data from a car selling company into valuable insights, allowing users to efficiently navigate through the codes and comprehend the purpose and content of each cell.

Key Achievements:

- Assisted team members in converting data into useful sales insights by using Databricks Medallion Architecture from raw data to a dashboard.
- Ventured the possibilities and causes of cancellation from a client's business sector with team member to minimise the risk of cancellation and suggesting ways to overcome current issue faced by clients from data that is presented.

Petronas Digital Sdn.Bhd.

Kuala Lumpur, Malaysia

Data Quality Engineer Trainee (Outsourcing)

Dec 2022 - Feb 2023

Tech Stack: SAP BODS, SQL

- Collaboration with data engineering team to develop ETL processes that extract data from sources given, transform it into a usable format, and load it into a target database or data warehouse using SAP BODS

EDUCATION

BSc (Hons) in Computer Science (majoring in Artificial Intelligence)

Bangi, Malaysia

National University of Malaysia

Relevant Coursework: Advanced Database Management, Robot Operating System, Machine Learning, Deep Learning

SIDE PROJECT EXPERIENCE

Lyrics Based Emotion Classification

• A project of classifying human's emotions using Malay patriotic song as dataset and NRC Emotion Lexicon as a guideline for final output. Four Machine Learning model was used in training the data for a better classifying task. The final output consists of 8 classified emotion as it can turn into a dashboard application that can help musicians and lyricist come up with better idea on writing lyrics that can help motivate the people to invoke feelings of patriotism in them.

Tech Stack : Natural Language Processing , Machine Learning , Python

Symptom Based Emotion Classification

• A collaboration of computer science and healthcare students that work together to accomplish a user friendly pre-diagnosis NCDs website. The whole project is completed within a month time from training to deploy the Machine Learning model to websites.

Tech Stack : Flask , Machine Learning , Flask

Hotel Booking Website

• The Hotel Booking Website using the MERN stack will provide a comprehensive platform for users to search, book, and manage hotel reservations. By leveraging the power of MongoDB, Express.js, React.js, and Node.js

LEADERSHIP EXPERIENCE

Turtle Bot Simulation Workshop

• Planned the flow of workshop with other facilitator, guide and managed a group of juniors aged between 7 to 13 years old to ensure that objective of the workshop is met effectively. The desired outcome is to ensure the participant understands and able to implement the basic command of ROS using Linux OS.

Robot Operating System Webinar

• Invited two professional speakers, who specialized in computer engineering and drone navigation, to deliver a presentation. Presentation described the pathway of becoming an engineer as a fresh graduate, and how the drones is using ROS to achieve successful navigation.

Java Mentor Mentee Programs

• Was awarded as the best mentor by PERTAMA organization, who guides juniors of first year in their programming journey in Java by completing syllabuses and practise with them.

SKILLS

Hard Skills: Machine Learning, SQL, Python, Java, HTML, CSS , Reactjs

Language: Mandarin (native), Cantonese (native), English (advanced), Malay (native)

Visualization Tools: Power BI, Tableau, Microsoft Excel