NATASYA KHOO

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PROFESSIONAL SUMMARY

Passionate and results-driven Computer Science graduate with experience in software development, data analytics, and machine learning. Skilled in Python, Java, SQL, and visualization tools such as Tableau , Power BI. Strong problem-solving and communication abilities, demonstrated through successful projects in emotion classification and web development. Dedicated to leveraging technology to drive business insights and enhance user experiences. Proven leadership in mentoring and organizing workshops for aspiring tech enthusiasts. Fluent in Mandarin, Cantonese, English, and Malay. Eager to contribute to innovative projects and collaborate with diverse teams in the tech industry. Open to new opportunities.

WORK EXPERIENCE

May 2023 — Present

Software Engineer, SNS Network (M) Sdn Bhd
Ipoh, Perak

- Participating in system development and enhancement, including coding, programming, troubleshooting, system study, and system testing.
- Preparing, maintaining, and updating system documentation related to data, workflow, logical processes, and interfacing with other systems.
- Engaged in training and integrating a suitable Machine Learning model into a web application to perform prediction, forecasting, and regression for various business use cases.
- Implement Machine Learning to streamline the workflows of inventory, sales, HR, and other departments by generating predictions for sales and product demand, as well as performing ABC classification using SKU information.
- Writing an R script to extract data from SAP Business.

Dec 2022 — Feb 2023

Data Quality Engineer Trainee (Outsourcing), Petronas Digital Sdn.Bhd.
Kuala Lumpur

- Collaborated with the data engineering team to formulate ETL processes designed to extract data from provided sources.
- Transformed the extracted data into a format conducive to usability, aligning with project requirements.
- Employed SAP BODS (Business Objects Data Services) to facilitate the extraction, transformation, and loading (ETL) of data.
- Developed and executed ETL jobs that effectively loaded the processed data into a designated target database or data warehouse.

EDUCATION BACKGROUND

Oct 2019 — Nov 2023

Bachelor of Computer Science (Hons) Artificial Intelligence, Universiti Kebangsaan Malaysia (UKM)
Bangi, Selangor

Jun 2018 — May 2019

Malaysia Matriculation Programme, Perak Matriculation College
Gopeng, Perak

INTERNSHIP EXPERIENCE

Nov 2022 — Apr 2023

Big Data Analyst Trainee, Strateq Systems Sdn Bhd
Petaling Jaya, Selangor

- Analysed data related to business processes to identify inefficiencies and provided recommendations that improved service efficiency and reduced cancellation rates within the sector.
- Employed Python to eliminate irrelevant or duplicated information from the dataset, which involved removing data associated with unrelated business tasks and correcting erroneously entered data.
- Assisted team members in utilizing Databricks Medallion Architecture to convert raw data into actionable sales insights.
- Collaborated with colleagues to explore potential causes of cancellations within the client's business sector.

SIDE PROJECT EXPERIENCE

Lyrics Based Emotion Classification

- Created a project focused on emotion classification using a dataset of Malay patriotic songs.
- Leveraged the NRC Emotion Lexicon as a foundation.
- Utilized four Machine Learning models for improved classification accuracy.
- The outcome included eight classified emotions.
- Developed a dashboard application from the results, benefiting musicians and lyricists in crafting patriotic and motivational lyrics.

Symptom Based Emotion Classification

- Facilitated a collaboration between computer science and healthcare students, resulting in the successful creation of a user-friendly website for pre-diagnosing non-communicable diseases (NCDs).
- The entire project was accomplished within a month, encompassing activities from model training to the deployment of the Machine Learning model onto the website.

Hotel Booking Website

- Developed a Hotel Booking Website employing the MERN stack, which harnessed the capabilities of MongoDB, Express.js, React.js, and Node.js.
- This platform offers users a comprehensive solution for effortlessly searching, booking, and effectively managing hotel reservations.

LEADERSHIP EXPERIENCE

Turtle Bot Simulation Workshop

- Collaborated with fellow facilitators to outline the workshop structure.
- Guided and supervised a group of juniors, aged 7 to 13 years old, ensuring the successful execution of the workshop's objectives.
- The main goal was to impart a clear understanding and practical implementation of basic ROS commands utilizing the Linux operating system.

Robot Operating System Webinar

- Two expert speakers, specializing in computer engineering and drone navigation, were invited to share their insights.
- They delivered presentations highlighting their post-graduation journey into engineering and discussed the role of ROS technology in ensuring smooth drone navigation for successful outcomes.

Java Mentor Mentee Programs

- Received recognition as the top mentor by the PERTAMA organization.
- This award was conferred for guiding first-year juniors in their Java programming journey.
- The mentorship involved completing syllabi and engaging in practice sessions to help these juniors grasp programming concepts effectively.

TECHNICAL SKILLS

- Microsoft Office - Words, Excel, PowerPoint
- Programming Language - SQL, Python, Java, HTML, CSS
- JavaScript - Reactjs
- Visualization Tools - Power BI, Tableau
- Hands-On Training skills - Machine Learning

SOFT SKILLS

- Strong problem-solving and analytical skills.
- Confident, articulate, and professional speaking abilities.
- Thrive in a team environment and work well with others.
- Ability to work independently in a fast-paced environment.

LANGUAGES

Mandarin	Native speaker	English	Highly proficient
Cantonese	Native speaker	Malay	Highly proficient

REFERENCES

References available upon request.