

Yeoh Choon Eung

DATA SCIENTIST · MACHINE LEARNING ENGINEER

☎ (+65)85897545 | ✉ chooneung@gmail.com | 📱 ceyeah | 🌐 chooneung

Data Scientist with 2+ years of experience working on high-impact projects in anomaly detection, computer vision, and recommender system.

Experiences

Data Scientist - Networks Analytics Engineering

Sep 2022 - Present

SINGAPORE TELECOMMUNICATIONS LIMITED (SINGTEL)

Singapore

- Enhanced customer experiences and reduced complaints by developing time-series forecasting models that proactively detect performance degradation in radio base stations, achieving an accuracy rate of 75%, leading to improved network reliability and customer satisfaction.
- Provided near real-time monitoring capabilities by designing and developing an interactive dashboard that offers insights into broadband DHCP and DNS activities, enabling the Networks Operation team to detect abnormalities based on data trends and proactively troubleshoot and resolve issues, resulting in a reduction in network downtime.
- Supported a project network shutdown initiative that potentially yielded \$3.8M in annual savings by delivering comprehensive monthly reports with device attribute insights on a per-customer basis, enabling stakeholders to plan customer migration effectively and prioritize customers most affected, resulting in an increase in migration efficiency.
- Introduced and developed data cubes to drive analytics and ML initiatives, reducing the turn-around time for generating insights from complex and large volumes of network data from 1-2 weeks to 1-2 days, leading to faster decision-making and improved operational efficiency.
- Participated in the development of the ETL data pipeline, responsible for ingesting and transforming raw data into the Hadoop DataLake, improving data processing efficiency and reducing data ingestion time by 25%.

Research and Development Software Engineer - Advanced Robotic Vision

Apr 2022 - Aug 2022

VI TROX CORPORATION BERHAD

Malaysia

- Conducted research and developed a deep-learning based anomaly detection algorithm for printed circuit boards (PCBs), resulting in a 35% increase in accuracy rate in detecting anomalies compared to previous traditional statistical methods, leading to a reduction in manufacturing defects and improving overall product quality.
- Developed a defect classification system for printed circuit boards (PCBs) using a supervised learning approach, achieving a 80% accuracy rate in defect classification, leading to more efficient defect identification and resolution processes.
- Researched and developed algorithms for image stitching and registration using deep learning approaches, reducing image stitching errors and improving the accuracy of image registration processes for post-processing such as anomaly detection.
- Developed internal support tools that streamlined workflow processes, resulting in an increase in operational efficiency. Additionally, collaborated with team members to enhance existing software based on customer feedback, leading to an improvement in user satisfaction and overall user experience.

Data Science Intern

Aug 2020 - Jan 2021

CERTIFAI SDN. BHD. (SKYMIND EDUCATION GROUP)

Malaysia

- Enhanced customer satisfaction and client sales by developing a collaborative-filtering based retail product recommendation engine, leading to a significant 10% increase in sales and higher customer engagement by leveraging advanced data science techniques and algorithms.
- Streamlined email communications by automating the delivery of welcoming emails to participants using Robotic Process Automation (RPA), resulting in a significant reduction in manual effort and time spent on email communications.
- Improved participant engagement and knowledge retention in deep learning training courses and projects by enhancing course content and integrating real-world applications into the curriculum in collaboration with subject matter experts, resulting in 50% improvement in average assessment scores and 30% improvement in passing rates.
- Facilitated the successful completion and comprehension of deep learning training courses and projects by delivering guidance and support to participants as a teaching assistant, resulting in a 10% increase in course completion rates and overwhelmingly positive participant feedback.

Skills

Programming/Scripting

Python, SQL, Shell/Bash, Java, C++

Frameworks/Tools

PyTorch, OpenCV, Airflow, Tableau, Flask, Git, Docker, PostgreSQL, ClickHouse

Big Data/Streaming

PySpark, Apache Hadoop, Confluent Kafka

Artificial Intelligence

Machine Learning, Deep Learning, Time Series Forecasting, Recommendation System, Probability and Statistic

Educations

Bachelor of Computer Science (Artificial Intelligence)

Sep 2018 - Feb 2022

UNIVERSITY OF MALAYA

Malaysia

- First Class Honours
- CGPA: 3.89 / 4.00