Marcus Teo Ming Xuan

45 Lorong 5 Toa Payoh |

Singapore 310045

87870079| marcusteomingxuan@gmail.com

http://www.linkedin.com/in/marcus-teo-36866230a

ABOUT ME

I am a year 3 AI and Data Engineering student in Nanyang Polytechnic with a strong passion towards Artificial Intelligence seeking internship in the machine learning or AI industry to bring a positive impact to the company using my machine learning or deep learning skills

EDUCATION

Nanyang Polytechnic- Singapore

AI and Data Engineering
April 2023-April 2026
Current GPA:3.72
Relevant Coursework: Deep Learning, Machine Learning, Python, Data Preparation and Visualization, Cloud Computing Platform (AWS), Natural Language Processing, Computer Vision

CERTIFICATIONS

- Outstanding Contribution in Co-curricular Activity Award (Infocomm Technology) – Beatty Secondary School, April 2022
- Certificate of Completion- Fundamentals of Deep Learning- NVIDIA, January 2025
- AI900 Azure Fundamentals- Microsoft, January 2025

SKILLS

Technical skills

- 3 years of proficiency in Python, 2 years of proficiency in C++, 2 years proficiency in HTML & CSS
- 2 years of proficiency in Machine Learning, creating and fine tuning models such as Ensemble (Random Forest, Adaboost), use of libraries such as TensorFlow, Scikit-Learn and Keras
- 2 years of proficiency in Machine Learning tools, such as Azure and Amazon Web Services (AWS)
- 2 years of proficiency in Data Analysis, Data Preparation and Visualization
- 1 year of proficiency in Deep Learning, creating and fine tuning of CNN models or Transfer Learning
- Currently learning: Kubernetes, big data (LLMs), robotics (turtlesim)

Soft Skills

- Humble with a strong sense of responsibility, I am hard working and will do my best to get my job done.
- Being an attentive and logical thinker allows me to analyze complex and confusing problems and divide them into easier components.
- As excellent team player and a leader who takes pride in his work, I am able to communicate and work well with teammates. I am able to understand the strengths and weakness of teammates, and listen to feedback or concerns.
- With the ability to remain calm, adapt and communicate well as well as think properly during stressful situations, I am a valuable asset to any team that I work with.

WORK EXPERIENCE

Retail Assistant

NTUC Fairprice– [Toa Payoh]
December, 2022– February, 2023
Retail Assistant in FairPrice, assisting the customers by restocking any empty shelves with products so that customers are able to find the items they want.

Marcus Teo Ming Xuan

45 Lorong 5 Toa Payoh |

Singapore 310045

87870079| marcusteomingxuan@gmail.com

http://www.linkedin.com/in/marcus-teo-36866230a

PROJECTS

Deep Learning Project– Nanyang Polytechnic

- Dec 2024 - Feb 2025
- My role was to create a CNN model and a Transfer Learning Model to identify airplane, automobile and truck.
- However, the images were heavily modified, having only 32 by 32 pixels.
- To create a well trained model, a large model, L2 Regularization and dropout was used to for high accuracy and reduce overfitting. For transfer learning, MobileNetV2 was used for the base model and VGG16 was used for fine tuning
- By doing so, a train accuracy of 90% and test accuracy of 93% was achieved for CNN model.
- A train accuracy of 94% and test accuracy of 97% was achieved for transfer learning model

Machine Learning Project – Nanyang Polytechnic

- July, 2024 – August, 2024
- For EGT207, my role was to create 2 models, a decision tree model and a ensemble method model, to classify whether patients had Parkinson's disease.
- However, the data had a lot of noise, such as DCAT, which lead to extremely inaccurate results
- By creating a decision tree model and manually editing the hyperparameters so that the model is not overfitted, but still gives high accuracy and ROC, I created a model with an validation accuracy of 93%.
- For ensemble method, I created a random forest model (Bagging), an Adaptive Boost model and a Gradient Boost model (Boosting). After altering hyperparameters, the best model had a validation accuracy of 95%, and was successfully able to classify the patients properly.

LEADERSHIP & INVOLVEMENTS

Infocomm Club-Beatty Secondary School – Vice Chair-man

May 2021- June 2022.
My role was to lead my team in events such as Chinese New Year concerts or Annual Award Ceremonies. I trained juniors on how to set up equipment. I was in charge of Annual Awards, a major event in the school. However, there was a lack of resource, such as manpower and time for the CNY event.

COMPETITION

NUS Maritime Hackathon

Jan 2025
My team was tasked to create a solution for the maritime industry, using Just In Time arrivals to reduce carbon emissions. However, the data given to us were very content heavy, making it hard to understand it. A time limit of one day was also given as well.
To accomplish the task given, we broke down the major task into smaller, way easier components to solve, allowing us to accomplish the task 5 hours before the submission dateline.