

Chee Kai Sin

I am embarking on an exciting career transition into Machine Learning Engineering. Armed with a passion for problem-solving and a knack for analytical thinking, I am eager to contribute meaningfully to the dynamic world of machine learning. My enthusiasm for learning and adapting to new technologies drives my commitment to mastering the intricacies of machine learning algorithms and their real-world applications.

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GitHub

LinkedIn

Singapore PR

Education

Robotics and Automation Engineering, University Teknikal Malaysia Melaka, Melaka

(2013 — NOVEMBER 2017)

3.72/4 CGPA

Projects

Chicken Disease Classification

-> Developed a deep learning pipeline on AWS for classifying diseases in chickens. Employed MLOps and DVC for streamlined model development and deployment. Created a user-friendly website allowing users to retrain the model and make predictions. Integrated AWS services for scalable and cost-effective deployment.

Air Quality Index Prediction

-> Developed a machine learning solution by leveraging Beautiful Soup for web scraping to gather information from website. Integrated machine learning models into Flask applications, providing seamless and intuitive user interfaces to interact with the predictive systems.

Movie Recommendation System

-> Design and developed a web application using Streamlit and enabling seamless exploration of personalized movie recommendations
-> Implemented content-based filtering algorithms, leveraging machine learning techniques to deliver accurate and tailored movie suggestions based on user preferences.

Red Wine Quality Prediction

-> Implemented a production-grade ML pipeline for red wine quality prediction using a systematic workflow. The process involved updating configuration files (config.yaml, schema.yaml, params.yaml), entities, configuration manager (src config), components, pipeline, main.py, and app.py. This meticulous approach ensured seamless integration and efficient management of the machine learning model within the production environment, enhancing the accuracy and reliability of red wine quality predictions.

Certifications

Data Science and Machine Learning: Making Data-driven Decision

MIT SCHWARZMAN COLLEGE OF COMPUTING, MAY 2023

Design Databases with PostgreSQL Skill Path

CODEACADEMY, OCT 2023

Apply Natural Language Processing with Python Skill Path

CODEACADEMY, OCT 2023

Soft Skills

Fast-learner, Analytical Thinking, Problem Solving, Curiosity, Time Management, Continuous Learning

Languages Known

English, Chinese, Malay, Hokkien

Technical Stack

Data Science / Machine Learning / Deep Learning

Python, Data Visualization, Supervised learning algos, Unsupervised Learning algos, CNN, ANN, EDA, Feature Engineering, Feature Selection & Extraction etc.

Mathematics for ML & DL

Probability, Statistics, Algebra, Matrices

Python packages and Frameworks

Scikit-Learn, TensorFlow, Keras, API, NumPy, Pandas, SciPy, Beautiful Soup, PySpark

MLops Tools

ML Flows, DVC, CI/CD

Web Development

Html, CSS, Flask, Django,

Programming Languages

Python, SQL, HTML,

Cloud Deployment and Containers

Heroku, AWS, Azure, Docker, Git

Databases

PostgreSQL, MySQL

Employment History

HLC Engineer, Pteris Global Pte. Ltd

(NOVEMBER 2019 — PRESENT)

- Design and develop software applications for airport logistics system such as SCADA and HMI.
- Performing commission and installation of SCADA system on site.
- Design and develop Simulation System (Emulate 3D)
- Project engaged:
 - ◇ Cairo International Airport (Egypt)
 - ◇ Tampa International Airport (USA)
 - ◇ Clark International Airport (Philippines)
 - ◇ Velana International Airport (Maldives)
 - ◇ Harare International Airport (Zimbabwe)