Lim Kim Hoong

AI Engineer | Senior Data Analyst

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EDUCATION

Universiti Malaya (UM) — **Kuala Lumpur, Malaysia**
Master of Data Science with Distinction, majoring in Computer Vision — Mar. 2022 – Jul. 2023
· CGPA: 3.98/4.0
· Coursework: Data Analytics, Machine Learning, Parallel and Distributed Computing, Numerical Optimization, Big Data Management

Universiti Tunku Abdul Rahman (UTAR) — **Kuala Lumpur, Malaysia**
Bachelor of Science (Honours) Financial Mathematics with Distinction — May 2017 – Oct. 2020
· CGPA: 3.59/4.0
· Coursework: Operation Research, Financial Economics, Predictive Modelling, Time Series Analysis
· Recognition: President's List (Oct 2018 & May 2019), Dean's List (May 2018, Jan 2019), Distinction in Soft Skills Development Certificate Program (USSDC)

SKILLS

Technical Skills	Machine Learning, Data Visualization, Data Analysis, Computer Vision (Tensorflow, SciKit-Learn, Plotly, Matplotlib, Pandas, Pytorch, Streamlit, Flask, FastAPI)
Programming Languages	Python, R, Microsoft SQL, VBA
Tools	Visual Studio Code, Jupyter Notebook, R Studio, Spyder, Power BI, Tableau, Weka, SAS Enterprise Miner, Talend data preparation, AWS (S3, Glue, Amazon SageMaker), Github, Azure, MySQL

PROFESSIONAL EXPERIENCES

Userdata Sdn. Bhd. — **Kuala Lumpur, Malaysia**
AI Engineer — May 2024 – Present
· Delivers expert **Python** coding support for **an internal chatbot product**, ensuring precise implementation of **advanced data science methodologies**.
· Designs and deploys **machine learning** and **NLP models** using **Python**, while continuously integrating cutting-edge open-source LLM models to enhance accuracy and processing speed.

OKX — **Kuala Lumpur, Malaysia**
Senior Data Analyst — Aug. 2023 – Apr. 2024
· Performed data cleaning, transformation, data quality check and exploratory data analysis in **Python** and **VBA**
· Enhanced the efficiency of process flow by **50%** by creating an **automated workflow** for **web scraping**, utilizing **Python** and **Selenium**

Bursa Malaysia Berhad — **Kuala Lumpur, Malaysia**
Analyst — Dec. 2020 – Aug. 2023
· Established legacy **VBA procedures**, constructing innovative data infrastructures that elevated data processing speeds and overall process efficiency by **50%**
· Refined over **3 Power BI interactive dashboard**, achieving **an 60% improvement** in real-time data processing, and monitoring daily
· Achieved a time reduction of **70% in data verification** for Bursa Trade Securities 2 ("BTS2") Tech. Refresh ("TR") project by utilizing **Python**

IBM Corporation — **Kuala Lumpur, Malaysia**
Data Analyst Intern — Oct. 2019 – Dec. 2019
· Performed data collection, verification, transformation, cleaning, and exploratory data analysis in **Excel**

PROJECTS

RFM Score Prediction for Customer Transaction in Bank [Code] — Sep. 2024
· Attained a **mean squared error (MSE)** of **0.0005** using a trained **Random Forest Regressor** on a dataset exceeding one million entries.

Build a Chatbot to Analyze PDF Files using LLM [Certificate] [Code] — Aug. 2023 – Oct. 2023
· Built a complete **local hosted Chatbot**, connected to **OpenAI API** by utilizing **Flask**, **Langchain** and UI design

Robotic Process Automation (RPA) for Reference Price Adjustment (RPA) — Apr. 2023 – Aug. 2023
· Automated **80%** of the current manual process by utilizing **UiPath** application for end-to-end Reference Price Adjustment (RPA)

Chinese Handwritten Digit Recognition using Machine [Paper] [Code] — Oct. 2022 – Jan. 2023
· Achieved an **accuracy of 98.93%** with an **average time of 44 seconds per epoch** for a self-designed architecture of Convolutional Neural Network (CNN) in recognizing 15,000 Chinese handwritten digits
· Submitted to **11th ICOICT** Conference 2023 under first author

M16 Touri-Scope Dashboard in R programming language [Website] [Code] — Mar. 2022 – Jun. 2022
· Provided a comprehensive overview of travel trends and patterns around the globe to Malaysia on pre and post pandemic, allowing for data-driven insights and strategic decisions to be made based on the highlighted patterns and key indicators