

# Lim Kim Hoong

AI Engineer | Data Analyst

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## WORKING EXPERIENCE

Userdata Sdn. Bhd., Malaysia

May 2024 – Present

AI Engineer

- 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, Malaysia

Aug 2023 – Apr 2024

Senior Data Analyst, OKLink Support

- 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, Malaysia

Dec 2020 – Aug 2023

Analyst, Reference Data Management

- Established legacy **VBA procedures**, constructing innovative data infrastructures that elevated data processing speeds and overall process efficiency by **50%**
- Crafted and refined over **3 Power BI interactive dashboards** to track crucial quality management metrics, 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, Malaysia

Oct 2019 – Dec 2019

Intern, Corporate Finance

- Performed data collection, transformation, cleaning, and exploratory data analysis in **Excel**

## PROJECT

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

KPMG AU Data Analytics Job Simulation on Forage [\[Certificate\]](#)

Aug 2023 – Oct 2023

- Completed a simulation focused on advising a client on customer targeting with the Data, Analytics & Modelling team
- Assessed data quality and completeness, analyzed data to target high-value customers based on demographic and attributes and developed dashboards to communicate findings with visuals

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 the paper 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

## EDUCATION

Universiti Malaya (UM), Malaysia

Mar 2022 – Jul 2023

Master of Data Science with Distinction, majoring in Computer Vision (CGPA: 3.98/4)

- Subject: Data Analytics, Machine Learning, Parallel and Distributed Computing, Numerical Optimization, Big Data Management

Universiti Tunku Abdul Rahman (UTAR), Malaysia

May 2017 – Oct 2020

Bachelor of Science (Honours) Financial Mathematics with Distinction (CGPA: 3.59/4)

- Subject: 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)

## SKILL

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
Tools	Jupyter Notebook, R Studio, Spyder, Power BI, Tableau, Weka, SAS Enterprise Miner, Talend data preparation, AWS (S3, Glue, Amazon SageMaker), Github, Azure, MySQL

## Certifications

Analyze Datasets and Train ML Models using AutoML, Built a Chatbot to Analyze PDF Files using LLM, Google Data Analytics, IBM Data Science Foundations, IBM Machine Learning with Python, IBM Data Visualization with Python, Asia Financial Markets Foundation Certificate