

LOW WEI HONG

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Summary

Senior Data Scientist with 6+ years in production ML/NLP. Proven ability to ship real-time data systems, features, and NLP models quickly. Hands-on experience in Web3 and smart contract development (Solidity).

Experience

OKX, Singapore

Nov 2022 – Aug 2024

Senior Data Scientist

- Constructed a centralized web crawling platform, Crawlapp, from scratch, overseeing the operation of over 40 active crawlers.
- Engineered a comprehensive monitoring dashboard by collecting, parsing, and structuring data from web crawlers across diverse platforms (YouTube, Twitter, crypto exchanges), enabling effective KOL activity tracking.
- Designed and automated the end-to-end data collection pipeline for identifying and distributing new crypto KOL leads from YouTube to global business development teams, including data extraction, cleaning, and routing.
- Fine-tuned and deployed over 13 translation models, achieving a significant cost reduction of 35% of existing vendor costs.
- Developed an automated intelligence news distribution system, achieving an accuracy rate of over 95% in distributing news to relevant groups.

Shopee, Singapore

June 2019 – June 2022

Senior NLP Data Scientist

- Supported credit risk team to crawled more than 200k Whatsapp profile images.
- Supported teammates with crawlers such as Taobao, Tianmao, JingDong, Smartprix, Gadgetsnow, dpreview, devicespecs and Instagram.
- Shared crawling techniques during a team internal meeting.
- Person In Charge of Keyword Spam Models for all markets who trained and maintained the precision Logistic Regression models combined with feature extraction technique over 6 markets regionally over 98%.
- Built and maintained the accuracy of Standard Product Unit (SPU) models over 6 markets regionally over 97% for Laptop.
- Built and maintained all the 7 daily job pipelines using airflow.
- Involved in keyword mining projects to mine representative keywords for each category.
- Trained machine learning models such as Fasttext and ElectraBert to classify items to its correct category with accuracy over 90% for all categories in Indonesia market.
- Implemented text mining technique to mine important product keywords for each level 3 category.

Shopee, Singapore

Aug 2018 – May 2019

Tech Lead, Local Business Intelligence

- Applied several machine learning models such as Bert and multinomial Naive Bayes models to achieve 90% accuracy for classifying level 3 categories.
- Delivered successfully by managing the Lowest Price Guaranteed (LPG) project, single handed from building and maintaining the whole Lowest Price Guaranteed process from daily crawl 120k items' links to maintaining database.
- Reduced LPG's claim by 50% after improved LPG's system within 2 months.

Education

Georgia Institute of Technology, Atlanta, GA

Jan 2025 – Dec 2025 (Expected)

- Candidate for Master of Science in Computer Science
- Specialization in Data Science

Stanford Online Artificial Intelligence Professional Program

Sept 2020 – Dec 2020

- Natural Language Processing with Deep Learning

Nanyang Technological University

Aug 2014 – May 2018

- Bachelor of Science (Honours) in Mathematics and Economics

QuantInsti Quantitative Learning

Apr 2018 – July 2018

- Certificate of Excellence in Executive Program in Algorithmic Trading

Charles University, Prague (Exchange Program)

Sep 2016 – Jan 2017

Skills

Programming: Python, SQL, Hive, C++ , R
Web Scraping: Scrapy, Playwright, Puppeteer, Selenium, Requests
Machine Learning: Sklearn, XGBoost, LightGBM, Keras, PyTorch
Concepts: Machine Learning, Deep Learning, Data Analysis, OOP, Algorithm Trading
Cloud & DevOps: AWS (EC2, S3), Docker
Visualization: Tableau, Plotly, Matplotlib
Collaboration: Rapid Prototyping, Cross-functional Collaboration
Language: English (professional), Mandarin (native), Malay (intermediate)
Blockchain/Web3: Solidity (basic), Crypto analytics, DeFi data crawling (YouTube, Twitter, exchanges)