

## LOW WEI HONG

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Personal Blog: <https://medium.com/@lowweihong/> | GitHub: <https://github.com/lowweihong/>

### Work Experience

#### OKX

Nov 2022 – Aug 2024

##### Data Scientist

- Constructed a centralized web crawling platform, Crawlai, from scratch, overseeing the operation of over 40 active crawlers.
- Engineered a comprehensive monitoring dashboard, leveraging data from web crawlers on platforms such as YouTube, Twitter, and various crypto exchanges which enabled the business development team to effectively track and analyze the activities of key opinion leaders (KOLs) in the crypto space.
- Automated the entire pipeline for identifying new leads from YouTube, specifically targeting crypto KOLs, and distributing these leads to business development teams across various countries.
- 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

June 2019 – June 2022

##### NLP Data Scientist

- Supported credit risk team to crawl 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

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

#### 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

### Technical Skills

- **Programming Skills:** Python, SQL, Hive, C++ , R.
- **DevOps Skills:** AWS (EC2, S3), docker.
- **Web Crawling Framework:** Scrapy, Puppeteer, Selenium, Requests.
- **Machine Learning Framework:** Sklearn, Xgboost, Lightgbm, Keras, Pytorch.

### Language Skills & Interests

- **Language Skills:** Fluent in English, Mandarin and Malay.
- **Interest:** Deep learning, machine learning, data analysis, algorithm trading, volunteering activities, travel, swimming and badminton.