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

- Fine-tuned and deployed 13+ translation models, cutting vendor translation costs by 35%.
- Built and deployed a news intelligence distribution system, achieving >95% accuracy in matching news to internal teams.
- Designed and deployed a centralized web crawling system using Docker, enabling 40+ concurrent crawlers across multiple markets with zero downtime for 10+ users.
- Automated lead generation from YouTube crypto influencers, delivering leads to global BD teams.
- Scraped and structured data from copy-trade platforms, powering 10+ dashboards used to monitor trading performance of 57K+ KOLs and support business development targeting.
- Collected near real-time data from X.com (Twitter), enabling 100% recall of user complaints and triggering real-time alerts during surges to support timely customer service response.

Shopee, Singapore   June 2019 – June 2022
Senior NLP Data Scientist

- Trained >98% precision spam detection models across 6 markets in production.
- Developed a high-accuracy classification system to automatically categorize Indonesian marketplace listings into 3,000+ categories, achieving over 80% accuracy overall.
- Implemented text mining techniques to extract relevant product keywords for each level-3 category, achieving >40% acceptance rate by internal reviewers.
- Built SPU classification models for laptops and maintained >97% accuracy across regions.
- Deployed and maintained 7 daily ML pipelines using Airflow for production monitoring and updates.

Shopee, Singapore   Aug 2018 – May 2019
Tech Lead, Local Business Intelligence

- Design and build the recommendation system with Item-Based Collaborative Filtering Algorithms(CF), improving item selected.
- Trained various machine learning models to classify products into level-3 categories with 97% overall accuracy and reduced 60% human annotation workload.
- Single-handedly led the LPG initiative end-to-end—from web crawling to data pipelines and database management—improving system efficiency and reducing LPG claim rates by 50%.
- Automated sending report process from uploading file to google drive, sending email and updating google sheet.
- Mentored two interns and one successfully converted to full time.

Education

Georgia Institute of Technology, Atlanta, GA
M.S. in Computer Science (Machine Learning specialization)
Jan 2025 – Dec 2025 (Expected)

Stanford Online
Artificial Intelligence Professional Program: NLP with Deep Learning
Sept 2020 – Dec 2020

Nanyang Technological University
B.Sc. (Hons) in Mathematics and Economics
Aug 2014 – May 2018

QuantInsti
Executive Program in Algorithmic Trading (Certificate of Excellence)
Apr 2018 – July 2018

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)