

SUMMARY

Machine Learning Specialist with 9+ years of experience delivering AI-driven business impact across travel, mobility, and cloud industries. Expert in building scalable ML production systems, Generative AI applications, and MLOps on platforms like Vertex AI and GCP.

EXPERIENCE

GOOGLE CLOUD

August 2021 - September 2024

CUSTOMER ENGINEER, MACHINE LEARNING SPECIALIST

Enabled 10+ enterprise customers of various sizes and technology maturity levels in Southeast Asia in adopting Google Cloud's machine learning technologies, including cutting-edge solutions like Generative AI, on their digital transformation journey. Focused on designing clean and scalable architectures adhering to MLOps best practices using the Vertex AI platform, resulting in reduced operational overhead and costs, while simultaneously increasing development velocity.

GOJEK

February 2019 - August 2021

DATA SCIENTIST

Optimized the supply side in the two-way mobility marketplace.

- Optimized driver incentive spending: Created a framework to predict how any segment of drivers would behave given a specific incentive structure using hierarchical modeling. This framework is then used to run optimization algorithms to maximize certain business outcomes. Depending on the objective, this has been experimentally proven to save millions of dollars of budget and increase the number of transactions by 1-2%.
- Optimized supply positioning: Recommended hotspot areas for drivers to visit in the near future using real-time data. Developed the model and deployed the prediction web service using the Go programming language, catering to multiple cities, vehicle types, and countries. This resulted in an improvement in the number of orders completed to more than 1%.

TRAVELOKA

September 2015 - January 2019

DATA SCIENTIST

- Maintained the legacy marketing ETL pipeline in MongoDB, then migrated it using Spark to Redshift, drastically reducing processing and scheduled report generation time from days to mere hours.
- Designed, ran, and scaled online A/B test experiments and analyzed them using Bayesian inference for insurance and flight pricing, increasing revenue by millions of dollar by identifying inelastic customer segments.
- Built and developed a machine learning model using Spark and XGBoost for the first version of recommendation system of hotel ranking with flexible objective functions (conversion rate, number of transactions, or revenue).

EDUCATION

KTH ROYAL INSTITUTE OF TECHNOLOGY

2013-2015

MS IN MACHINE LEARNING

FACULTY OF COMPUTER SCIENCE, UNIVERSITAS INDONESIA

2007-2011

BS IN COMPUTER SCIENCE

SKILLS

PROGRAMMING LANGUAGES Python | Java | Go | R | Matlab | C

DEVOPS Git | Docker | Github Action | Gitlab CI | GCP | AWS

DATA SCIENCE FRAMEWORKS Jupyter | Matplotlib | Numpy | Pandas | Scikit-learn | PyTorch | VertexAI

BIG DATA ANALYTICS BigQuery | Spark | Redshift | Looker | Airflow | Prefect | Kubeflow | Streamlit

CERTIFICATION GCP Professional Machine Learning Engineer (PMLE) | GCP Professional Data Engineer (PDE) | Sun Certified Java Programmer (SCJP)

HONOR AND AWARDS

- Honorable Mention, Jakarta Region ACM International Collegiate Programming Contest (ICPC) 2009
- Best presenter, International Conference on Advanced Computer Science and Information System (ICACSIS) 2012
- Swedish Institute Study Scholarship Recipient 2013