

## Contact

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(Portfolio)

## Top Skills

Python (Programming Language)  
SQL  
Data Scraping

## Languages

English (Professional Working)  
Indonesian (Native or Bilingual)

## Certifications

IBM Data Science Specialization

# Michael Liem

Data Engineer at DOKU  
Jakarta Metropolitan Area

## Summary

Computer Science graduate with experience as both a Data Scientist and Data Engineer. I have worked on building data-driven solutions to support business decisions across various industries, including pharmaceuticals and finance.

## Experience

### DOKU, PT NUSA SATU INTI ARTHA

2 years 8 months

#### Data Engineer

August 2024 - Present (1 year)

Jakarta

- Utilized Python, SQL, and Airflow to design and implement ETL pipelines, extracting data from diverse raw sources and transforming it into structured datamarts to support the analytics team in generating data-driven insights.
- Conducted research and experiments to identify and implement more efficient methods, optimizing existing processes to accommodate growing data volume and enhance overall performance.

#### Data Scientist

December 2022 - July 2024 (1 year 8 months)

- Crawled and scraped data from public websites and sources to support KYC and KYB processes.
- Conducted data analysis on various financial products with Matplotlib and Metabase.
- Assisted the business intelligence and product teams in transforming manually created monthly reports to automated reporting using Metabase, and how to utilize Metabase efficiently.
- Researched and applied new machine learning tools and techniques for product prototyping.

### PT Kalbe Farma, Tbk

#### Data Scientist

August 2021 - December 2022 (1 year 5 months)

Central Jakarta, Jakarta, Indonesia

- Extract and analyze data from multiple sources (external websites and internal database), supporting business decision-making and research efforts
- Match doctor profile data from multiple sources with 75% accuracy
- Develop a product recommendation system prototype
- Develop a machine learning algorithm to predict which hospital should be visited by surgery salesmen on a biweekly basis
- Lowered supervised machine learning exploration time from 1 month to 1 week using AutoML tools

PT Kalbe Farma, Tbk

Data Science Intern

February 2020 - February 2021 (1 year 1 month)

Central Jakarta, Jakarta, Indonesia

- Writing script to acquire Kalbe Group's internal data and external data from different sources needed as a prototype of data ingestion engine
- Data cleansing on integrated internal data as needed in big data analysis project
- Creating a data science tools web application with Flask framework

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## Education

Universitas Bina Nusantara (Binus)

Bachelor of Science - BS, Computer Science · (2017 - 2021)