


Salsabil Maulana Akbar

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Summary

A Data Science person with almost 3 years of professional experience, having worked at both an early-stage startup and a multinational corporation. With a strong quantitative background, he is well-equipped to handle complex number-crunching tasks with ease. Has valuable expertise in Mathematics and Data Science and also passionate on doing the magic with large datasets and Data Science toolbox to uncover valuable insights and business opportunities.

Experience



Data Scientist

Tokopedia

Sep 2021 - Present (2 years)

Responsibilities:

1. Explored current trends on Information Retrieval & NLP-related Area (for E-Commerce Domain) and its downstream tasks that are relevant to Tokopedia's initiatives.
2. Validated data requirement, performed data exploration, analysis, and consulted on DS Project feasibility study based on aforementioned actions.
3. Experimented and explored approaches that can improve current process, including but not limited to the Deep Learning and Classical Machine Learning models.
4. Deployed DS Products as services that can be utilized by Engineers (either as Real-time API or Batch Prediction Pipeline).
5. Assisted on experimentation design & goals, answered the "why" and "what" questions after experimentations, and exploited on "how" followup actions should be done for uncharted opportunities and improvements.

Tech Stacks: Python (main), Keras-Tensorflow, GCP, Bigquery & SQL, Git, Docker, Jenkins, Airflow



Data Scientist

Pashouses

Nov 2020 - Sep 2021 (11 months)

Involved in the end-to-end process on Data Journey at Pashouses

Key Achievements:

- > Achieved reliable single digit error rate on house pricing model in 6month span and scarce volume of data
- > Created a first data-solution workflow with >90% Success rate from internal SLA
- > Reduced costly manual effort by 90%, improving overall pace and volume served for Pricing purpose

Responsibilities:

1. Spearheaded an Automated Valuation Model using machine learning techniques for predicting house prices in the Greater Jakarta Area.

2. Implemented third-party solutions of Image Duplication Detection to improve business process efficiency.
3. Collaborated on initiative to develop data flow for analytics purposes and streamlined various data-related business process automations.
4. Piloted on several initiatives to harness house pictures into an AI-based tool using Deep Learning, with some of them are Image Classifications & OCR.

Tech Stacks: Python (main), Git, Keras-Tensorflow, PostgreSQL, GCP, Google Maps API, Ms. Excel.



Laboratory Assistant (Various Courses for Undergraduate Degree)

Institut Teknologi Bandung

Aug 2018 - Dec 2019 (1 year 5 months)

Worked as a Laboratory Assistant and Coordinators for Several Undergrad Courses in Mathematics.

The courses are:

1. Numerical Mathematics (H1-H2 2019): Assisting second-year and third-year students in learning MATLAB on implementing various algorithms to solve Mathematical Equations using numerical approaches.
2. Data Analysis and Statistics (H2 2018-H2 2019, Coord): Assisting second-year students in learning basics of R Programming Language for Data Analysis, Statistics, and Data Visualization.
3. Simulation and Mathematical Computation (H2 2019, Coord): Assisting second-year students in learning basics & intermediate syntaxes of MATLAB for general programming purposes and mathematical modeling.

For coordinator, it has additional responsibility of managing the learning process through the semester.



Data Engineer & Analyst Intern

BPJS TK

Jul 2019 - Aug 2019 (2 months)

Did several projects:

1. Assessed and Collaborated on transitions of business processes from various tools into R & SQL.
2. Generated scripts for performing actuarial calculations and projections.
3. Developed Mock Web App for Actuarial Division using Shiny R.

Tech Stacks: R (main), Shiny R, Excel, SPSS.

Education



Institut Teknologi Bandung

Bachelor of Science - BS, Mathematics and Statistics

2016 - 2020

Undergrad Project: Computational Fluid Dynamic Solver using Finite-Volume with Staggered Grid Method



SMAN 68 JAKARTA

High School, Sciences
2013 - 2016

Licenses & Certifications

 **Data Science Weekend Track for R** - Algoritma Data Science School



Marketing Analytics - University of Virginia Darden School of Business
EK8MKZXX8LG2



Deep Learning Specialization - DeepLearning.AI
DH46DJCNAXVP



DeepLearning.AI TensorFlow Developer - DeepLearning.AI
3RCL8Y2599D7

Skills

Python (Programming Language) • Data Science • Machine Learning • Natural Language Processing (NLP) • SQL • Mathematical Modeling • Mathematics • Data Analysis • Deep Learning • Google Cloud Platform (GCP)

Honors & Awards



Dean's List Award - Dean of Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung
Jun 2019

This award is given to students who reached outstanding performance in their academics. (Received it in 1st Semester, 3rd Semester, 5th Semester, 6th Semester, and 7th Semester. No 8th Semester reward because all of Undergrad Credit has been taken in the 7th Sem)



Successful Participant in International Mathematical Contest of Modelling Competition - COMAP
Feb 2020

Was given awards as a successful participant after solving fish migration problems using Mathematical Modelling approach



Business Case Competition BCCxTokopedia 8th Grand Summit Semifinalist - BCCxTokopedia
2019

Was ranked 13th among 200+ teams after proposing a solution to logistic and supply chain problems in Indonesia



World Quant Challenge 2019 Top 30 National - International World Quant
2019

Was awarded Bronze Category after delivering a solution for a quant problem (algorithmic-based portfolio constructions)



Super Titan (Second Tier Winner) of Telkomsel Tech Titan League 2021 -

Telkomsel

Sep 2021

Ranked 11-30th out of 1000+ participant in Telkomsel Tech Titan League 2021, a competition for Data Practitioner and Enthusiast to showcase their Data Science and Programming Skills