

Ravialdy Hidayat

Case De Parco Apartment • Tangerang Regency • ravialdyhidayat@gmail.com • (+62) 852 1301 4477
• [linkedin.com/in/ravialdy-hidayat-a617a8156/](https://www.linkedin.com/in/ravialdy-hidayat-a617a8156/)

SUMMARY

I am a professional having 3+ year experiences in building and deploying ML/AI models, data analysis, and statistical modeling. I co-led a team that developed and tested deep learning detection & tracking models for analyzing the safety of heavy vehicles, achieving high accuracy and automation. I hold a bachelor's degree in statistics from Universitas Indonesia and have experiences in Python, Java, C++, PySpark, PyTorch, etc. I am really passionate about applying AI to solve real-world problems and advancing the field of machine learning.

EXPERIENCE

SAMSUNG R&D INSTITUTE INDONESIA

Jakarta, Indonesia

AI Data Scientist

Feb 2024 - Present (1 yr 2 mos)

- Speed up existing zig-zag path prediction algorithm by up to 10x faster using C++ and some optimization techniques. Used by Samsung Robot Cleaner devices.

Tools: C++, g++, and Makefile.

- Successfully build machine learning process that can correctly predict Samsung dryer user course behaviour based on previous washer courses by up to 85%.

Tools: SQL, PySpark, Pandas, Scikit-Learn.

- Design A/B testing and create its dashboard visualization for Samsung Air conditioner and Washer.

Tools: Python, Java, and JavaScript.

PT BERAU COAL

Berau, East Kalimantan

Data Scientist

Aug 2021 - Apr 2023 (1 yr 9 mos)

- Successfully built AI system that achieves >90% accuracy in predicting fatigue incidents inside heavy vehicles.
- Successfully developed AI system that reduces risks of accidents at least 10% by predicting workers inside critical areas and detect unsafe distances between heavy vehicles. Recognized by Ministry of Energy and Mineral Resources.
- Created statistical modeling and data visualizations for analyzing the company's data.
- These technologies are still used by the company until now due to the benefits for reducing safety risks.

Tools used: Python, OpenCV, Pytorch, labellmg, SQL, R, Tableau, Tensorflow, Tesseract.

UNIVERSITAS INDONESIA

Laboratory Assistant

Sep 2020 - Dec 2021 (1 yr 4 mos)

- Provide all technical assistance on how to use R, Excel, and Python to statistics student in Universitas Indonesia.

- Create the module and guideline so the students can learn R, Excel, and Python easily.
- Create assignments and quizzes to assess what students have learned regarding the material that is given.

EDUCATION

UNIVERSITAS INDONESIA

Sep 2018 - June 2022

Best university in Indonesia #QS World University and Times Higher Education (THE) 2025 Rankings.

Statistics, Year 2018. Final GPA 3.52/4.00 (Top 10%, Cumlaude).

Relevant Coursework: Data Mining, Probability and Statistics, Regression Analysis, etc.

BANGKIT ACADEMY LED BY GOOGLE, GOJEK, TOKOPEDIA, AND TRAVELOKA

Jan 2021 - June 2021

- Machine Learning Path. Grade "A" 93.88/100.
- Certified Google Tensorflow Developer.
- Relevant tools: Python, Tensorflow, OpenCV, Tesseract, Javascript.

NOTABLE PROJECTS

LLaMA-2 Chatbot Javanese language (Basa Jawa)

- Link project: github.com/ravialdy/llama2-javanese
- Translate english instruct OASST1 and OASST2 datasets into javanese language using NLLB model.
- Finetune LLaMA-2 to become a chatbot for basa Jawa with Multi-GPUs training.
- Utilize latest tools, such as DeepSpeed, TRL, and LORA PEFT to enable fast and efficient finetuning.
- Simple deployment of finetuned LLaMA-2 model with Flask.

Tools: DeepSpeed, TRL, LORA PEFT, Huggingface, NLLB, Flask.

VOLUNTEERING

AICODING INDONESIA

Content Creator

Nov 2024 - Present (5 mos)

- Created YouTube channel 'AICoding Indonesia' where I share my knowledges related to AI, data science, and coding.
- Link of my channel: youtube.com/@belajaraicoding
- Successfully gained more than 100 subscribers where one of the video 'DeepSeek-R1 part 1' is viewed by more than 1000 people.
- All of the videos are 100% free and use Indonesian language.

RELATED INTERNATIONAL CERTIFICATION

- IELTS Academic Official Score: 7.0 (Issued Jan 2024, Expires 31 Dec 2025).

SKILLS & INTERESTS

Technical: Python, Java, C++, Javascript, PySpark, PyTorch, OpenCV, SQL, Scikit-Learn, R

Interests: Machine Learning, Computer Vision, Natural Language Processing, Data Analysis & Analytics, Data Visualization, AI model deployments, and Project Management