

Rezka Leonandy

ML Engineer and Data Scientist with 8+ years of experience spanning both industry and academia.
Specializes in the end-to-end lifecycle of data science.

[Personal Website](#) | [Github](#) | [LinkedIn](#) | [Leetcode](#)

INDUSTRY EXPERIENCE	ROLE	COMPANY / DESCRIPTION	LOCATION	PERIOD
	Senior Data Scientist - Routing & Maps	Gojek The biggest ride-hailing & superapp in Indonesia. \$5B USD Valuation.	Jakarta, Indonesia	
		▪ Trained a large-scale gradient boosting model to predict better time estimates of a given road segment, improving the internal route quality metrics by 25%, achieving comparable result with Google Maps. The model was trained utilizing drivers raw GPS data and graph structure of the road network. This initiatives saved the company > 1 million USD annually by removing our dependency on Google Maps.		Jun 2022 – Present
		▪ Designed and deployed a production-grade automatic maps error detector to assist human agents in keeping internal maps updated to real-world conditions. This system automated 45% of incoming driver tickets while maintaining over 70% precision by leveraging raw GPS ping data, the map-matching algorithm, and crowd-sourced driver feedback.		
		▪ Managed and optimized approximately 200 flyte data production pipelines, both batch and real-time (streaming). The combined pipeline processes over 1 million rows of data daily.		
		▪ Designed and ran rigorous experimentation (e.g. AB & AA Test, switchback, and diff-and-diff) to ensure ML model effectiveness and alignment with key business metrics.		
	Data Scientist - Search & Ranking	HappyFresh Quick commerce startup. Raised \$97M USD in Series D.	Jakarta, Indonesia	
		▪ Improved conversion rate metrics by approximately 2% by enhancing the internal next-purchase ranking models (tree-based model) which predicts better order for items that the users preferred.		Feb 2021 – Jun 2022
		▪ Reduced null search result metrics by around 1% by enhancing the internal synonym candidate generation model. The model was built using bayesian ranking.		
		▪ Developed tree-based gradient boosting model to predict out-of-stock items in supplier stores, leading to a 3–5% improvement in key inventory metrics across >100 stores in three countries.		
	Data Scientist - Chatbot	FinAccel The biggest BNPL startup in Indonesia. \$1.6B USD Valuation.	Jakarta, Indonesia	
		▪ Developed email autoresponder and chatbot using LSTM models to support customer service operations, automatically resolving approximately 53% of daily incoming emails and 33% of daily chat inquiries.		Feb 2020 – Feb 2021
		▪ Built a product recommendation system to extract product embeddings and optimized the batch prediction speed by 8× using Approximate Nearest Neighbors (ANN) techniques on the product embeddings.		
RESEARCH EXPERIENCE	Research Scientist	Kata.ai LLM and AI startup. Raised \$3.6M USD in Series B.	Jakarta, Indonesia	
		▪ Published a paper comparing two methodology: Supervised Model Fine-Tuning and Unsupervised Pretrained LLM Fine-Tuning for Named Entity Recognition in Indonesian conversational texts.		Sep 2018 – Sep 2019
		▪ Finetuned the LLM on as few as 100 sentences and achieved an absolute improvement of 32 points in test F1 score compared to the baseline model.		
	Graduate Research Student	i-machine-think UvA and Meta AI Paris Research Group	Amsterdam, The Netherlands	
		▪ Published a paper on training neural networks to learn to follow instructions from small data, particularly in the subregular language and the language games of SHRDLURN.		Jan 2018 – Aug 2018
		▪ The study concludes that neural networks can automatically acquire the necessary inductive biases to learn to follow human instructions from minimal data.		
	Data Scientist Intern	Zylab Software development company	Amsterdam, The Netherlands	
		▪ Built their first CRF model for NER use case in English, Dutch, and French. Evaluated the CRF model on CoNLL 2003 dataset.		Jul 2017 – Oct 2017

EDUCATION	Saarland University , Saarbruecken, Germany ▪ Ph.D in Computational Linguistics (Withdrawal, Unfinished)
	University of Amsterdam , Amsterdam, The Netherlands ▪ M.Sc in Artificial Intelligence
	University of Indonesia , Jakarta, Indonesia ▪ B.S. in Computer Science
PUBLICATIONS	[1] <u>R. Leonandya</u> , D. Hupkes, E. Bruni, and G. Kruszewski, “Training neural networks to learn to follow instructions from small data” in <i>Proceedings of the 13th International Conference on Computational Semantics (IWCS 2019)</i> . Gothenburg, Sweden, May 2019. [2] <u>R. Leonandya</u> , F. Ikhwantri, “Pretrained language model transfer on neural named entity recognition in Indonesian conversational texts” in <i>The 33rd Pacific Asia Conference on Language, Information and Computation (PACLIC 33)</i> . Hakodate, Japan, Sep 2019. [3] <u>R. Leonandya</u> , B.D. Trisedya, and N.H. Praptono, “A semi-supervised algorithm for Indonesian named entity recognition” in <i>Proceedings of the 3rd International Symposium on Computational and Business Intelligence</i> . Bali, Indonesia, Dec 2015.
TOOLS	Python, SQL, Docker, Jupyter Notebook, Flyte (workflow orchestration), Merlin (kubernetes for ML deployment), Cookiecutter, PyTorch, Tensorflow, Google Cloud Platform, Java, C#, LLMs.
LANGUAGES	Indonesian (native), English (professional)