Rifo Ahmad Genadi

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Education

Mohamed Bin Zayed University of Artificial Intelligence	Abu Dhabi, United Arab Emirates
Master's degree in Natural Language Processing	Auguts 2024 - Present
Institut Teknologi Bandung	Bandung, Indonesia
Bachelor's degree in Informatics	August 2016 - July 2020

Work Experience

LibrAI — Abu Dhabi, United Arab Emirates
Research Engineer — May 2025 - August 2025

- Contributed to multi-turn Agent-RL Framework development.
- Implemented more environment support in the framework, such as WebShop and ScienceWorld.
- Implemented automated test pipeline.

Sembly — Remote
AI Software Engineer — May 2022 - June 2024

- Explored and implemented various alternatives for content screening feature for a discourse platform, including toxicity, spam, relevancy, tentativeness, and clarity evaluation of the post.
- Implemented post-type classification pipeline.
- Explored ways to improve search feature by applying LLM to increase recall.
- Implemented stance classification pipeline.
- Implemented Entity Resolution model to match and de-duplicate entities/records to initialize internal knowledge base based on several external sources (WikiData, MediaBiasFactCheck, etc.).
- Implemented post summarization pipeline.

Datasaur — Remote
AI Engineer — October 2020 - April 2022

- Developed the AI-assisted annotation feature, allowing users to pre-annotate their dataset with a small amount of data.
- Developed PII Anonymization feature to protect sensitive user information.
- Conducted PoC for active learning feature, which allows users to prioritize which data to focus on and annotate.

Institut Teknologi Bandung — Bandung, Indonesia
Teaching Assistant — January 2020 - July 2021

- Managed hands-on exercises and assisted student projects in several courses: Software Engineering Project (~150 students), Advanced Machine Learning (~40 students), and Big Data Technology (~25 students).

GDP Labs — Jakarta, Indonesia
Software Development Engineer Intern — May 2019 - August 2019

- Explored Web Assembly and its potential applications for QR Code reading and generation.
- Refactored back-end services using the NestJS framework, improving code maintainability, scalability, and enabling a modular architecture with built-in support for dependency injection and structured development, offering advantages over previous vanilla TypeScript.

Matagi Informasi Pertiwi — Tangerang, Indonesia
Javascript Developer Intern — May 2018 - July 2018

- Developed several website landing pages for clients as a full stack developer.
- Developed a website builder using Javascript tech stacks.

PROJECTS

Understanding LLM Sycophancy via Activation Steering
Training-free method to improve LLM truthfulness.

Inference-time Defense Method against LLM Jailbreak
Analysis on LLM internal representation and improve its robustness against harmful queries.

Improving Robustness in Javanese and Sundanese ASR
Apply noise-aware training to improve ASR in Indonesian regional languages.

Culturally-Nuanced Commonsense Reasoning in Javanese and Sundanese
Dataset creation and evaluation for culturally-grounded common-sense story continuation in Indonesian regional language.

Object Material Classification using VLM for Robot Manipulation
Fine-tuned wide-range of Visual Language Model architectures on Object Material Classification task using QLoRA, making it possible to train in a smaller GPU.

Collaborative Text Editor
A text editor that can be edited collaboratively in real-time, uses CRDT data type.

Jabar-Viz-Masy
Site showing data visualization of Regional Revenue and Expenditure Budget Data of Jawa Barat Province of Indonesia

DIA Information System
A cosmetic factory information system

PUBLICATION

AgentFly: Extensible and Scalable Reinforcement Learning for Agents
Build framework to develop LM agents with variety of RL algorithms, supporting multi-turn interactions.

ASR Under Noise: Exploring Robustness for Sundanese and Javanese
Investigate Whisper-based ASR Robustness in Sundanese and Javanese, evaluating effectiveness of noise-aware training and SpecAug on noisy conditions.

Synthetic Data Generation for Culturally Nuanced Commonsense Reasoning in Low-Resource Languages
compare three dataset creation strategies: (1) LLM-assisted dataset generation, (2) machine translation, and (3) human-written data by native speakers, to build a culturally nuanced story comprehension dataset. Our findings indicate that LLM-assisted data creation outperforms machine translation.

Opinion Triplet Extraction for Aspect-Based Sentiment Analysis Using Co-Extraction Approach
Proposed Transformers-based and RNN-based variants to do sentiment analysis for Indonesian Hotel Reviews. The proposed solutions can detect sentiment in various levels of granularity with 70-90% accuracies.

AWARDS

Top 10 in Healthkathon 2024	BPJS Kesehatan Indonesia August 2024
Finalist in Bank Indonesia Hackathon 2024	Bank Indonesia August 2024
Champion Titan in Telkomsel Tech Titan League 2021 Series 3 - Machine Learning	Telkomsel November 2021
3rd Place in Jakbee Hackathon 2020	Baznas Bazis DKI Jakarta November 2020
1st Place in Kontes Robot Indonesia Regional 2 - KRSTI division Technology, and Higher Education	Indonesia Ministry of Research, May 2019
Top 5 in Vacathon	Indonesia Ministry of Tourism May 2019
Finalist in ICPC Asia-Jakarta Regional	ACM ICPC October 2018

References

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