

Lucky Susanto

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RESEARCH INTERESTS

AI for Society, AI Safety, Mechanistic Interpretability, Explainable AI, NLP

EDUCATION

University of Indonesia | #1 Best University in Indonesia

February 2024

S.Kom. in Computer Science

GPA: 3.7/4.0

Advisor: Adila Alfa Krisnadhi, S.Kom., M.Sc., Ph.D

Thesis: Developing a Standardized Translation Benchmark for Low Resource Local Languages in Indonesia

PUBLICATIONS

- [1] **"A Multi-Labeled Dataset for Indonesian Discourse: Examining Toxicity, Polarization, and Demographics Information".**
Lucky Susanto*, Musa Wijanarko*, Prasetia Pratama, Zilu Tang, Fariz Akyas, Traci Hong, Ika Idris, Alham Aji, Derry Wijaya. In *Findings of the Association for Computational Linguistics: ACL 2025*, pages 18863–18890, Vienna, Austria. Association for Computational Linguistics., 2025.
- [2] **"NusaAksara: A Multimodal and Multilingual Benchmark for Preserving Indonesian Indigenous Scripts".**
Muhammad Farid Adilazuarda*, Musa Izzanardi Wijanarko*, Lucky Susanto*, Khumaisa Nur'aini, Derry Wijaya, Alham Fikri Aji. In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 28371–28401, Vienna, Austria. Association for Computational Linguistics., 2025.
- [3] **"Metametrics: Calibrating metrics for generation tasks using human preferences".**
Genta Indra Winata*, David Anugraha*, Lucky Susanto*, Garry Kuwanto*, Derry Tanti Wijaya. In *The Thirteenth International Conference on Learning Representations*, 2025.
- [4] **"Monitoring Hate Speech in Indonesia: An NLP-based Classification of Social Media Texts".**
Musa Wijanarko*, Lucky Susanto*, Prasetia Pratama, Ika Idris, Traci Hong, Derry Tanti Wijaya. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing: System Demonstrations*, 2024.
- [5] **"WORLDCUISINES: A Massive-Scale Benchmark for Multilingual and Multicultural Visual Question Answering on Global Cuisines".**
Genta Indra Winata, Frederikus Hudi, Patrick Amadeus Irawan, ..., Lucky Susanto, ..., Derry Tanti Wijaya, Alice Oh, Chong-Wah Ngo. In *The 2025 Annual Conference of the Nations of the Americas Chapter of the ACL*, 2025.
- [6] **"Metametrics-MT: Tuning machine translation metametrics via human preference calibration".**
David Anugraha, Garry Kuwanto, Lucky Susanto, Derry Tanti Wijaya, Genta Indra Winata. In *Proceedings of the Ninth Conference on Machine Translation*, USA. Association for Computational Linguistics, 2024.
- [7] **"SEACrowd: A Multilingual Multimodal Data Hub and Benchmark Suite for Southeast Asian Languages".**
Holy Lovenia, Rahmad Mahendra, Salsabil Maulana Akbar, ..., Lucky Susanto, ..., Genta Indra Winata, Ruochen Zhang, Fajri Koto, Zheng-Xin Yong, Samuel Cahyawijaya. In *The 2024 Conference on Empirical Methods in Natural Language Processing*, 2024.
- [8] **"IndoToxic2024: A Demographically-Enriched Dataset of Hate Speech and Toxicity Types for Indonesian Language".**
Lucky Susanto, Musa Izzanardi Wijanarko, Prasetia Anugrah Pratama, Traci Hong, Ika Idris, Alham Fikri Aji, Derry Wijaya. arXiv preprint arXiv:2406.19349, 2024.
- [9] **"What Linguistic Features and Languages are Important in LLM Translation?".**
Ryandito Diandaru, Lucky Susanto, Zilu Tang, Ayu Purwarianti, Derry Wijaya. In *International Workshop Towards Digital Language Equality: Focusing on Sustainability 2024*, 2024.
- [10] **"Replicable Benchmarking of Neural Machine Translation (NMT) on Low-Resource Local Languages in Indonesia".**
Lucky Susanto, Ryandito Diandaru, Adila Krisnadhi, Ayu Purwarianti, Derry Wijaya. In *The First Workshop in South East Asian Language Processing (SEALP)*, 2023.

EXPERIENCES

Monash University Indonesia | Junior Researcher

Feb 2024

- Train and Evaluate various models to detect texts in various contexts: texts related to the Indonesian 2024 General Election, hate speech, and polarization; Where the results are featured in news stations.
- Gathering sentiment on the culture of "mudik" (going home) during the Eid al-Fitr Holiday season from Indonesians online and getting the results featured in news stations.
- Handling various undergoing projects.

Collaboration with Prof Derry Wijaya from Boston University | Research Collaborator

Dec 2022 - Dec 2023

- Recognized the urgent problem of the absence of replicable benchmarks for low-resource Neural Machine Translation (NMT). This highlights that existing benchmarks in NMT often consist of billions of parameters well outside the reach of many researchers.
- **Led the Development of Replicable Low-Resource NMT Benchmarks**, creating and advocating for the use of accessible yet robust evaluation tools for the Indonesian research community. Achieved by establishing a replicable NMT benchmark for four low-resource local languages in Indonesia, providing a template for future works.

Kata.ai | AI Research Intern

Feb 2022 - Jul 2022

- Developed various training curricula not tested before and evaluated their impact on BERT's performance for the GLUE benchmark.
- Conducted in-depth evaluations of multiple progressive stacking techniques to enhance the efficiency of BERT pre-training.
- Created a pipeline for pre-training BERT models utilizing both training curriculum and progressive stacking which **potentially increases BERT's pre-training convergence rate by 4% while reducing compute requirements by 12%**.

University of Indonesia | Teaching Assistant for Design and Analysis of Algorithms Course

Aug 2021 - Jan 2022

- Tutoring students on **analyzing the time complexity, memory complexity, and the correctness of various algorithms**.
- **Guiding some students in writing papers** for the course's final assignment.

University of Indonesia | Teaching Assistant for Database Course

Feb 2021 - Jul 2021

- Tutoring students on **Database Modeling** and **PostgreSQL** basics.
- Evaluating and providing personalized feedback to students on their assignments.

HONORS

Monash Indonesia RAs & PhDs: 3 Minute Thesis | 1st Place

Apr 2025

- Prepare and present a presentation in the format of a 3-minute thesis competition.

Crack The Case: Data Analysis Competition | 1st Place

Sep 2021

- Processing a large and unclean dataset consisting of the 9 Pillars of Prosperity Index of all countries in the world across multiple years.
- Discovering trends and uncovering insights from the dataset is not feasible due to its size.
- We clean the dataset and perform multiple stages of analysis. Utilizing Multilayer Perceptron, we uncover that countries scoring high in the Social Capital index tend to have a higher Prosperity Index in general. We report on this trend alongside various insights for other pillars

National Science Olympiad in Informatics | Finalist

Jul 2018

- Represented my province in a highly contested, yearly nation-wide competition in Informatics which includes mathematics, algorithms, and programming.

VOLUNTEER

IJCNLP-AACL 2023 | Bali, Indonesia

Nov 2023

- Ensuring all the equipment and software were ready for the majority of the venues
- Actively moderated and facilitated the flow of proceedings at two workshop venues

ACL 2025 | Vienna, Austria

July 2025

- Helping with registration and poster sessions.