Muhammad Farid Adilazuarda

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EDUCATION

Institut Teknologi Bandung   Bandung, Indonesia
Master of Computer Science, System Intelligence | Fast Track | Cum Laude, 3.79/4.00 | Youngest Graduating Student
- Awarded Erasmus+ scholarship for a semester exchange study at The University of Zagreb, Croatia (Feb '23 - Jul '23).
- Dissertation: "LanguageFusion Development to Overcome Language Identification Bottleneck in Modular Multilingual Language Models"
- Courses taken: Probabilistic Machine Learning (AB), Knowledge Representation & Understanding (AB), Deep Learning (AB)
- Coordinated 6 teaching assistants in Natural Language Processing and Advanced Machine Learning courses for 50+ Master's and Bachelor's students.

Institut Teknologi Bandung   Bandung, Indonesia
Bachelor of Science in Computer Science
- Dissertation: Adversarial Robustness Testing on Pretrained Language Model in Text Classification.
- Courses taken: Natural Language Processing (A), Advanced Machine Learning (A), Data Science and Data Mining (A)
- Led a team of 6 for external outreach for an annual Arkavidia Talks, securing 14 speakers, including Fransiska Hadiwidjana (Forbes 30 under 30) and other startup CEOs, resulting in a successful event with 300+ attendees.
- Head of the Data Science Community. Spearheaded initiatives and collaborated with 17 members on data science community-building through hosting workshops and competitions. Organised teaching in several orphanages and schools in Bandung about the foundations of programming to 50+ students. Mentored 30 newly joined students of Informatics ITB.

RESEARCH & PROFESSIONAL EXPERIENCE

Mohamed bin Zayed University of Artificial Intelligence (MBZUAI) – The *world's first AI university*   Abu Dhabi, UAE
Research Assistant (full-time)   Nov 2023 - Current
- First-authored a survey paper on cultural studies in Computational Linguistics, focusing on Large Language Models (LLMs).
- Actively contributed to the SEACrowd initiative by consolidating scattered datasets and resources from South East Asia into a single data hub, facilitating easier access for researchers.
- Contributor in the CVQA project, developing a Culturally-sensitive Visual Question Answering dataset with 4.9k+ images and 9.5k+ questions from 30+ cultural regions, enhancing the diverse and inclusive cultural evaluation of multimodal AI models.
- Currently engaged in research aimed at cultural preservation and the development of resources for low-resource Indonesian languages, contributing to the safeguarding of linguistic heritage.
- Delivered tutorial on the Mixture-of-Experts concept in Natural Language Generation class attended by 15+ Master's students.
- Awarded a $30k Microsoft Research Grant for research in cultural understanding and evaluation in NLP.

Sevenpreneur – *Entrepreneurial organisation driving SME growth by connecting people and VCs*   Jakarta, Indonesia
AI Team Lead and Venture Analyst   Jan 2023 – Aug 2023
- Spearheaded a team of 4 AI engineers and analysts to create the first Indonesian AI-Driven company initiatives at Sevenpreneur, successfully enhancing employees performance efficiency by ~15%.
- Delivered expert data science consulting services, encompassing due diligence, market analysis, and strategic business planning. Successfully achieved a 20% increase in market penetration rate for a Premium Car & Motor Decal Company through targeted data-driven strategies.

National Corruption Eradication Committee (KPK) – *Indonesia's Corruption Eradication Committee*   Jakarta, Indonesia
Research Assistant   July 2022 – Dec 2022
- Developed a machine learning model for gratification detection and anti-corruption efforts, achieving an impressive F1-Score of 92.3% and precision/recall rates of 93% in a complex 5-class text classification.
- Applied rigorous statistical analyses and advanced text embedding techniques, facilitating the successful incorporation of this system into KPK's existing public reporting framework.

Blibli.com – *One of the biggest Indonesian E-commerce*   Jakarta, Indonesia
Data Scientist   July 2021 – Aug 2021
- Led critical projects in seller and chat spam & fraud detection, attaining a 94% fraud detection F1-score and significantly enhancing platform security for 19.74 million users.
- Orchestrated a price anomaly detection initiative during the pandemic, identifying and taking action against 83 shops for inflating prices of essential goods.

Apr 2024   Muhammad Farid Adilazuarda   1

PUBLICATIONS

[1] Towards Measuring and Modeling 'Culture' in LLMs: A Survey
MF Adilazuarda, …, Alham Fikri Aji, Jacki O'Neill, Monojit Choudhury   *[Under review for ACL 2024]*

[2] LinguAlchemy: Fusing Typological and Geographical Elements for Unseen Language Generalization
MF Adilazuarda, Samuel Cahyawijaya, Alham Fikri Aji, Genta Indra Winata, Ayu Purwarianti *[Under review for ACL 2024]*

[3] Beyond Turing: A Comparative Analysis of Approaches for Detecting Machine-Generated Text
MF Adilazuarda   *[TrustNLP, NAACL 2024]*

[4] IndoRobusta: Towards Robustness Against Diverse Code-Mixed Indonesian Local Languages
MF Adilazuarda, Samuel Cahyawijaya, Genta Indra Winata, Pascale Fung, Ayu Purwarianti   [SUMEval, AACL 2022]

[5] The Obscure Limitation of Modular Multilingual Language Models
MF Adilazuarda, Samuel Cahyawijaya, Ayu Purwarianti   [*Tiny Paper, ICLR 2023[*

[6] Findings of the 1st Shared Task on Multi-lingual Multi-task Information Retrieval at MRL 2023
Francesco Tinner, David Ifeoluwa Adelani, et al., …, MF Adilazuarda, …, Duygu Ataman   [*MRL, EMNLP 2023*]

[7] NusaCrowd: Open Source Initiative for Indonesian NLP Resources
Samuel Cahyawijaya, …, MF Adilazuarda, Graham Neubig, Timothy Baldwin, Sebastian Ruder, …   [Findings, ACL 2023]

TEACHING ASSISTANTSHIPS

Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)
Graduate Teaching Assistant
- NLP702: Advanced Natural Language Processing   2024 Spring

Institut Teknologi Bandung
Graduate & Undergraduate Teaching Assistant
- IF4072: Natural Language Processing   2022 Fall
- IF4074: Advanced Machine Learning   2022 Fall
- IF2211: Algorithm Strategy   2021 Spring
- IF2123: Linear Algebra and Geometry   2020 Fall

HONORS & AWARDS

- [Regional] Semifinalist - DAC ITS Data Analytics Competition, Won 3rd place in the preliminary stage among 30 teams across Southeast Asia. Made a residence recommender system using LGBM, and achieved an 82% F1 score.
- [National] Finalist - GEMASTIK 13 Data Mining Competition, Top 20 among 300+ teams from 113 colleges across Indonesia. It was one of the first Indonesian systems to detect mask usage during the pandemic.
- [National] Semifinalist - Kata Hack 2.0 AI Innovation Competition, Top 15 nationwide. Made "Orama" a chatbot-based app to help children with low vision get a better education.
- [National] Best Team - Software Engineering Academy COMPFEST 12. Placed first among all team participants during the camp. Made an E-Commerce app by implementing best practices, microservice, and agile.
- [National] Digital Talent Scholarship - Security Specialist Awardee. Selected as 200 participants among 2000+ students across universities in Indonesia. Full 2 weeks boot camp about information security.

SKILLS & INTERESTS

- Conference Reviewer: ACL 2024, NAACL 2024
- Professional Memberships: Association for Computational Linguistics (ACL)
- Languages: Native in Javanese, bilingual in Indonesian, IELTS score of 8.0
- Mentorship: Advised and mentored 6 bachelor's and master's students in their theses related to Natural Language Processing
- Interests: Ethics and morality of AI systems, multilingual and multicultural NLP, modular language modelling
- Education: SMA Negeri 1 Blitar High School – GPA 89.93/100 – Ranked 9 out of 350+ – Selected as a member of the *Science Acceleration Class* (completed high school in just 2 years, compared to the normal 3 years)