

Muhammad Zuhdi Fikri Johari

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DI Yogyakarta, Indonesia

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Research Interest Data Engineering, Data Discovery, Information Extraction, Natural Language Processing, Geospatial Data Processing, Software Engineering

Education **Universitas AMIKOM Yogyakarta**, DI Yogyakarta, Indonesia 2022-2024 (*expected*)
Bachelor of Informatics
Specialization: Data Engineering, Software Engineering, GIS, NLP
GPA: Overall 3.90/4.0

Universitas AMIKOM Yogyakarta, DI Yogyakarta, Indonesia 2018-2021
Associate of Informatics Engineering
Specialization: Recommender Systems (NLP), Data Engineering
GPA: Overall 3.95/4.0

Selected Publications Arif Dwi Laksito, Kusrini Kusrini, Arief Setyanto, **Muhammad Zuhdi Fikri Johari**, Zauvik Rizaldi Maruf, Kumara Ari Yuana, Gardyas Bidari Adninda, Renindya Azizza Kartikakirana, Fitria Nucifera, Wiwi Widayani, Krishna Chandramouli, and Ebroul Ezquierdo. *Machine Learning and Social Media Harvesting for Wildfire Prevention*. 13th International Conference on Pattern Recognition Systems, 2023 (ICPRS '23).

Kumara Ari Yuana, Kusrini Kusrini, Arief Setyanto, Arif Dwi Laksito, Zauvik Rizaldi Maruf, **Muhammad Zuhdi Fikri Johari**, Gardyas Bidari Adninda, Renindya Azizza Kartikakirana, Prase-tyo Mimboro, Wiwi Widayani. *Monte Carlo Method For Map Area Calculation In Wildland Fire Map Management*. 6th International Conference on Information Technology, Information Systems and Electrical Engineering, 2022 (ICITISEE '23).

Muhammad Zuhdi Fikri Johari and Arif Dwi Laksito. *The Hybrid Recommender System of the Indonesian Online Market Products using IMDb weight rating and TF-IDF*. *Rekayasa Sistem Dan Teknologi Informasi Journal*, 2021 (RESTI): 5(5), 977 - 983.

Research Experiences **International Research Collaboration on NLP-Data Collecting** Nov 2022-Present
Undergraduate research collaboration on NLP to preserve Indonesian Local Languages.

- Collaborating with Prof. Derry Wijaya of Boston University.
- Undergraduate Adviser: Kumara Ari Yuana and Arif Dwi Laksito.
- International Research Collaboration on Digitizing and Collecting the Indonesian Local Language Resources, to be involved in language preservation of Indonesian Local Languages. Supported by MoECRT ACE Open Research program.
- Building platforms to collect and digitize Indonesian local language resources utilizing OCR methods.

SILVANUS Project July 2022-Present
Part of the AMIKOM research team. Working as a Research Programmer.

- Team Leader: Prof. Kusrini of Universitas AMIKOM Yogyakarta.
- Research focuses on Computational Geo/Environmental Science for WildFire and Forest Management. Working with various data forms related to remote sensing and spatial-geography data processing. Research funded by EU Horizon 2020.
- Responsible for developing platforms using Python programming to: make a back-end web app to visualize the result of a Bayesian model from map area calculation; and build an integrated system pipeline for social media analysis and remote sensing data processing.
- Building data pipeline processing to compile data coming from many sources, for instance: WorldBank, ECMWF Copernicus, Dataspace Copernicus (Sentinel), USGS EO, etc.

Industry Experience	PT Global Data Inspirasi (Datains)	July 2021-Oct 2022
	Data Engineer	
	<ul style="list-style-type: none"> • Developed monitoring interface, adding and improving features, and optimizing existing services. • Explore data pipeline mechanism for visualizing geospatial data. • Utilized ETL for data migration between SQL databases using enterprise tools. • Supports required data to ML engineers, data scientists, and data analyst teams. 	
	PT Global Data Inspirasi (Datains)	Sept 2020-Jan 2021
Teaching Experience	Intern. Data Engineer	
	<ul style="list-style-type: none"> • Involved in machine learning projects, with the main task of labeling training data. • Learned the basic ETL concept as the data engineering main task. 	
	PT Digital Kreasi Mediatama (Digito)	July 2020-Oct 2021
	Freelance Script Writer	
Community Involvement	<ul style="list-style-type: none"> • Involved in production teams to make animation video explainers for client companies. • Created script and storyline drafts based on company learning materials. 	
	AMIKOM DT019 Operating Systems, <i>Lab. Teaching Assistant</i>	Sept 2019-Feb 2020
	AMIKOM Assoc. Informatics Student Association, <i>Act. Lead RnD Division</i>	2019-2021
	AMIKOM Islamic Student Unit, <i>Regeneration Division</i>	2019-2021
	AMIKOM Ramadhan at Campus, <i>Lead Event Division</i>	April 2020
	AMIKOM Student Bootcamp, <i>Event Chairman & Mentor</i>	December 2019
Technical Skills	AMIKOM Muslim Students Jamboree, <i>Event Chairman</i>	December 2019
	Programming Languages: Python, Javascript, Ruby, Shell Scripting Cloud Platforms: GCP, AWS, Azure, IdCloudHost Databases: MySQL/MariaDB, PostgreSQL, ElasticSearch (ELK), Redis, MongoDB, HDFS Libraries and Tools: VueJs, Chart.js, Jekyll, Flask, SQLAlchemy, Pentaho, GDAL, Rasterio, QGIS, Shapely, Cdsapi, Geomesa, Geoserver	