

Curriculum Vitae

PERSONAL INFORMATION

Name	Anggi Muhammad Rifa'i, M.Kom.	
Place/ Date of Birth	Majalengka/ 31 Agustus 1998	
Gender	Male	
Nationality	Indonesia	
Phone	+62 8898 0229 926	
Email	anggi.muhammad126@gmail.com	
Website Profile	https://anggirifai.com	
ID Scopus	58148480000	
ID ORCID	0000-0002-6199-2029	
ID Google Scholar	V49XhJcAAAAJ	
ID WoS	LCR-8257-2024	
	H Index Google Scholar: 4; H Index Scopus: 2	

SUMMARY

I have Bachelor degree in Computer Science in 2021 and a Master degree in Informatics Engineering in 2023, with specialization in Business Intelligence, Artificial Intelligence, Computer Vision, Natural Language Processing, Data Science, and Big Data Infrastructure. Currently, I am student a Doctoral Degree in Computer Science at IPB University, expanding my research and expertise in advanced Artificial Intelligence and intelligent systems.

My professional experience spans academia, educational technology, and software development. Since February 2024, I have been serving as a lecturer in the Informatics Engineering Program at Universitas Pelita Bangsa, teaching courses related to Artificial Intelligence and supervising student research projects. I also contribute to research and community service quality assurance initiatives within the Faculty of Engineering. In addition, I founded and developed Edumind AI, an AI-powered academic assistant designed to support academic activities and help students understand and complete research methodology tasks more effectively.

My primary areas of expertise include Computer Vision, Deep Learning, Machine Learning, MLOps, Natural Language Processing, Data Science, and AI-driven educational technologies. I am proficient in Python and experienced in developing intelligent systems, deploying machine learning solutions, and building scalable AI applications. I also possess a strong background in 3D visualization and animation using Blender.

As an active researcher, I have achieved an H-index of 4 on Google Scholar and 2 on Scopus. I am passionate about leveraging Artificial Intelligence to solve real-world problems, improve educational outcomes, and create innovative technology solutions that bridge research, industry, and society.

EDUCATION

- 2017 – 2021: **Undergraduate of Information Technology**, University of AMIKOM Yogyakarta, Sleman, DI Yogyakarta, Indonesia, graduated on 25 August 2021.
- 2022 – 2023: **Master of Informatics Engineering**, University of AMIKOM Yogyakarta, Sleman, DI Yogyakarta, Indonesia, graduated on 21 August 2023.
- 2025 – Now: **Doctor of Computer Science**, IPB University, on going.

WORK EXPERIENCE

UNIVERSITAS PELITA BANGSA

Bekasi, ID

Quality Assurance for Research and Community Service in Engineering Faculty

Lecture

Februari 2024 – Now

- Coordinate and monitor quality assurance activities for research and community service programs within the Faculty of Engineering.
- Support accreditation processes, performance evaluation, and continuous quality improvement initiatives.
- Analyze research outputs and institutional performance indicators to enhance academic excellence and compliance with higher education standards.
- Teach undergraduate Informatics Engineering courses related to Artificial Intelligence, Machine Learning, and Data Science.
- Develop learning materials, supervise student projects, and integrate emerging AI technologies into teaching and research activities.

JITU KREASI UTAMA

Sleman, ID

3D Generalist Mentor – instructor

December 2022 – July 2023

- As a 3D specialist
- Create curriculum materials for learning
- Teaches in the field of 3D modeling and animation (sometimes 2D animation and graphic design)

PT SARANA PANCAKARYA NUSA

Bandung, ID

Media Specialist - Marketing Support

October 2021 - January 2022

- Supporting the marketing division in increasing product sales
- Creating 3D for product usage tutorial facilities
- Support the R&D team to make product packaging

AMIKOM COMPUTER CLUB

Sleman, ID

Hardware Software Specialist - Facilitator

September 2018 - September 2019

- As a Hardware Software Specialist

- Instructors who provide lessons about hardware (computer hardware, basic robotics electronics) and software (C programming language)
- Looking for potential participants to be included in the competition

UNIVERSITAS AMIKOM YOGYAKARTA

Sleman, ID

Practicum Assistant - Computational Algorithm

September 2018 - Januari 2019

- Become a lecturer assistant with as many as 4 credits (28 meetings)
- Provides basic lessons of computational algorithms and basic programming languages

INTRODUCTION TO COMPUTER

Sleman, ID

Workshop Instructor - Digital Interactive Media
Division

August 2018 - September 2019

- Become an instructor
- Provide material on how to create presentation files
- How to present properly and correctly

RUMAH MESIN

Bantul, ID

Media Specialist - SEO Specialist

July 2017 - August 2017

- Increase main website visits
- Creating a website or blog and content or articles as support to increase the main website visitors
- Monitoring the improvement of the website, has it entered number 1 on google search

PROJECT

Edumind – AI Chatbot

Juli 2025

- Designed and developed an AI-powered chatbot to support academic services and improve learning experiences for students at Universitas Terbuka.
- Built intelligent conversational systems to provide academic guidance, answer student inquiries, and streamline access to educational information.
- Developed AI-assisted features to help students understand and complete research methodology tasks, including research design, data analysis, and scientific writing.
- Integrated Large Language Models (LLMs) and natural language processing technologies to deliver personalized and context-aware academic support.
- Collaborated with academic stakeholders to enhance the effectiveness, accessibility, and scalability of AI-driven educational services.

Kageur Startup – AI Engineering

November 2022

- Kageur is a startup engaged in the field of medical technology that has a vending machine product with a function as a disease consultation and purchasing drugs using Artificial Intelligence. Has features with IoT technology, expert systems, Natural Language Processing, Computer Vision
- Creating an Optical character recognition system to verify data
- Creating a concept for IoT cloud data
- Do it on time according to the given deadline

- Utilized: Python programming, C programming, Machine Learning, Computer Vision

RESEARCHES

National Scope:

- Enhancing Pneumonia Detection from Chest X-Rays Using Hybrid Deep Learning Models with Advanced Image Preprocessing Techniques (2025-2026)
- Advancing Cross-Cultural Natural Language Processing with a Focus on Sundanese Language and Contextual Nuances (2024-2025)
- Eye Disease Detection and Classification Optimization Using EfficientNet-B5 with Emphasis on Data Augmentation and Fine-Tuning (2024-2025)
- Improving Blood Cell Subtype Classification Performance Using Color Augmentation and Multi-Stage Training with EfficientNet-B5 (2024-2025)

COMMUNITY SERVICE

National Scope:

- Inclusive and Sustainable Economic Empowerment: The Independence of SMEs for People with Disabilities in Bekasi (2025)

LIST OF SELECTED ACADEMIC/ SCHOLARLY AWARDS RECEIVED

- Best Presenter Award at the International Conference on Smart Computing, IoT, and Machine Learning (SIML) 2025, 3-4 June 2025
- Award Champion 1st from CODE2022 (Coding Development) in category of technological innovation, Our innovation is an AI system that can detect fake news using Natural Language Processing (to detect text) and Optical Character Recognition (to convert images into alphabet), August 2022.

REVIEWER

- IETE Journal of Research
- Transactions on Emerging Telecommunications Technologies
- Journal of Intelligent & Fuzzy Systems
- Biomedical signal processing and control
- Transactions on emerging telecommunications technologies
- International Conference on Smart Computing, IoT, and Machine Learning (SIML) 2025
- The Tenth International Conference on Informatics and Computing (ICIC) 2025

SELECTED JOURNALS (LAST 5 YEARS)

- **Anggi Muhammad Rifa'i**; Ema Utami; Amali; Muhammad Fatchan; Muhammad Ekhsan. 2026. Advancing Cross-Cultural Natural Language Processing with a Focus on Sundanese Language and Contextual Nuances. *CommIT (Communication and Information Technology) Journal*. Vol. 20, No. 1, pp. 155–167. DOI: doi.org/10.21512/commit.v20i1.13912.
- Ahmad Turmudi Zy; Isarianto Isarianto; **Anggi Muhammad Rifa'i**; Abdul Ghofir; Muhammad Najamuddin Dwi Miharja; Ananto Tri Sasongko. 2025. Optimizing firewall timing for brute force mitigation with random forests. *IAES International Journal of Artificial Intelligence (IJ-AI)*. DOI: doi.org/10.11591/ijai.v14.i4.pp2945-2954
- **Anggi Muhammad Rifa'i**; Mohd Aboobaidur Burhanuddin; Wahyu Hadikristanto; Alhadi Saputra; Dhani Ariatmanto; M Shakhkir Mozamir. 2025. Improving Blood Cell Subtype Classification Performance Using Data Augmentation with MobileNetV2. 2nd International Conference on Smart Computing, IoT and Machine Learning (SIML). DOI: https://doi.org/10.1109/SIML65326.2025.11081145
- Amali; **Anggi Muhammad Rifa'i**; Edy Widodo; Ahmad Turmudi; Dhani Ariatmanto. 2025. Explainable DDoS Detection with a CNN-LSTM Hybrid Model and SHAP Interpretation. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*. DOI: doi.org/10.29207/resti.v9i6.6865
- **Anggi Muhammad Rifa'i**; Muhammad Fatchan; Ahmad Turmudi Zy; Donny Maulana; Sufajar Butsianto. 2025. Eye Disease Detection and Classification Optimization Using EfficientNet- B5 with Emphasis on Data Augmentation and Fine-Tuning. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*. DOI: doi.org/10.29207/resti.v9i5.6519
- Ahmad Turmudi Zy; **Anggi Muhammad Rifa'i**; Agung Nugroho; Abdul Ghofir. 2025. Enhancing Network Security: Evaluating SDN-Enabled Firewall Solutions and Clustering Analysis Using K-Means through Data-Driven Insights. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*. DOI: doi.org/10.29207/resti.v9i1.6056
- Dhani Ariatmanto; **Anggi Muhammad Rifai**. 2024. The Impact of Feature Extraction in Random Forest Classifier for Fake News Detection. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*. DOI: doi.org/10.29207/resti.v8i6.6017
- Ananto Tri Sasongko; Wahyu Hadikristanto; Agung Nugroho; Muhamad Fatchan; Ahmad Turmudi Zy; **Anggi Muhammad Rifa'i**. 2024. 7th International Seminar on Research of Information Technology and Intelligent Systems (ISRITI). DOI: doi.org/10.1109/ISRITI64779.2024.10963541
- Ahmad Turmudi Zy; **Anggi Muhammad Rifa'I**; Antika Zahrotul Kamalia; Asep Arwan Sulaeman. 2024. Detecting DDoS attacks through decision tree analysis: an EDA approach with the CIC DDoS 2019 dataset. 8th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE). DOI: doi.org/10.1109/ICITISEE63424.2024.10730435
- **Anggi Muhammad Rifa'I**; Ahmad Turmudi Zy; Wahyu Hadikristanto; Sufajar Butsianto. 2024. Leveraging Data Augmentation and Dropout Layer in MobileNetV3 for Accurate Skin Cancer Detection ISIC Dataset. 8th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE). DOI: doi.org/10.1109/ICITISEE63424.2024.10730105
- **Anggi Muhammad Rifai**; Suwanto Raharjo; Ema Utami; Dhani Ariatmanto. 2024. Analysis for diagnosis of pneumonia symptoms using chest X-ray based on MobileNetV2 models with image enhancement using white balance and contrast limited adaptive histogram equalization (CLAHE). *Biomedical Signal Processing and Control*. DOI: doi.org/10.1016/j.bspc.2023.105857

- Risna Sari; **Anggi Muhammad Rifa'I**; Muhammad Salimy Ahsan; M Ilham Arief; Mohammad Rezza Pahlevi. 2023. Understanding of Requirements Engineering using The Three Dimensions of Requirements Engineering Method in Platform Development. International Journal of Engineering, Technology and Natural Sciences (IJETS). DOI: doi.org/10.46923/ijets.v5i2.218
- Rajnaparamitha Kusumastuti; Elfandry Bayunanda; **Anggi Muhammad Rifa'i**; Muhamad Ryandy Ghonim Asgar; Fahma Inti Ilmawati; Kusrini Kusrini. 2022. Clustering Titik Panas Menggunakan Algoritma Agglomerative Hierarchical Clustering (AHC) Authors. 2022. CogITo Smart Journal. DOI: doi.org/10.31154/cogito.v8i2.438.501-513
- **Anggi Muhammad Rifa'i**; Ema Utami; Dhani Ariatmanto. 2022. Analysis for Diagnosis of Pneumonia Symptoms Using Chest X-Ray Based on Resnet-50 Models With Different Epoch. 6th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE). DOI: doi.org/10.1109/ICITISEE57756.2022.10057805

COPYRIGHT

- Pemberdayaan Ekonomi yang Inklusif dan Berkelanjutan : Kemandirian UKM Penyandang Disabilitas di Bekasi, EC002025226842, 26 December 2025
- CLAHEMON (Contrast Limited Adaptive Histogram Equalization for Pneumonia), EC002025132184, 16 September 2025