

Nasrullah

Machine Learning Engineer



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SUMMARY

Fresh graduate in Informatics Engineering with a strong foundation in Artificial Intelligence, Machine Learning, and AI Automation. Experienced in building and deploying deep learning models for computer vision and natural language processing using TensorFlow, PyTorch, and OpenAI API. Skilled in integrating AI solutions into scalable back-end systems using Flask, NestJS, Laravel, and Docker. Recognized as a distinction graduate from Bangkit Academy and published research at a Scopus-indexed IEEE international conference. Actively contributes to AI communities (GDSC) and mentors students in applied AI development. Eager to apply my skills in AI engineering to create intelligent, automated solutions that drive real-world impact.

EDUCATION

Universitas Muslim Indonesia – Makassar, Indonesia

Informatic Engineering, Faculty of Computer Science

Sep 2021 – Feb 2025

- Current GPA: 3.975/4.0
- Relevant Coursework: Algorithm and Data Structure, Calculus, Statistics, Artificial Intelligence, Data Mining, Pattern Recognition, Research Method

SKILLS

Programming: Python, TypeScript, PHP, Java, C++, SQL.

AI/ML: TensorFlow, PyTorch, Scikit-learn, OpenCV, OpenAI API, DeepSeek.

Technical Skills: Python, TensorFlow, PyTorch, Scikit-Learn, Open CV, Flask, Laravel, Web Crawling, Data Structure.

Tools & Platforms: Google Colab, Jupyter Notebook, n8n, Git, GitHub, Hugging Face, Postman, Linux.

Soft Skills: Teamwork, Communication, Problem-Solving, Leadership.

Languages: Bahasa Indonesia (Native), English (Intermediate).

EXPERIENCES

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka - Indonesia

Machine Learning Cohort

Aug 2023 – Jan 2024

- Received 5 certificates related to Machine Learning through Coursera
- Studied and built machine learning models, including Deep Neural Network (DNN), Convolution Neural Network (CNN) for Computer Vision, Natural Language Processing (NLP), Recurrent Neural Network (RNN), and Long Short-Term Memory (LSTM) for sequences, time series, and prediction.
- Engaged in a Product-Based Capstone Project named StuntCare, an AI-based application for early stunting prevention.
- Earned the title of best graduate.

Google Developer Student Clubs (GDSC) - Indonesia

Technical Division, Machine Learning & Artificial Intelligence

Sep 2023 – Sep 2024

- Planning and implementing training programs for GDSC UMI members in the field of machine learning and artificial intelligence.
- Conducting weekly learning sessions focused on machine learning and artificial intelligence.
- Organizing intensive sprint learning programs to enhance the understanding of GDSC UMI members in these areas.
- Becoming a speaker in various sessions such as the Bangkit Info Session.

Laboratory Assistant Faculty Of Computer Science - *Indonesia*

FIKOM UMI

Feb 2023 – Present

- Mentored 50+ students in programming, database, and web development courses.
- Developed assistant registration & inventory system using Laravel, reducing manual work by 80%.
- Provided project supervision and technical guidance for final-year student projects.

PROJECTS & ACTIVITIES

Best Presenter – EIConCIT 2025 Conference in Makassar

- Awarded Best Presenter at the 6th East Indonesia Conference on Computer and Information Technology (EIConCIT 2025), held in Makassar.

Presenter – IMCOM 2025 Conference in Bangkok

- IMCOM 2025 is an international conference focusing on information and communication management, providing a platform for researchers, academics, and practitioners to share the latest findings in the fields of information technology, artificial intelligence, and human-computer interaction.
- I presented research on vehicle detection from aerial imagery using the YOLO model, which achieved an mAP50 score of 98.9%.

Winner of Makassar Hackathon 2024

- Makassar Hackathon 2024 is a digital product idea competition organized by the Youth and Sports Office of Makassar City, aimed at promoting youth innovation in the revolution of human resources and the acceleration of digitalization in Makassar.
- Won 3rd place in the Makassar Hackathon 2024.

Food Classification at Bangkit Academy Capstone

- The final project in the Bangkit Academy program, carried out collaboratively within a team with the acquisition of our own dataset.
- Exceptional achievement with accuracy above 98%, coloring the success of this project.
- Successfully deployed using Flask API and Docker, ensuring sustained and optimal accessibility for this project.

Optimizing Lontara Numeral Recognition with YOLOv5 Technology

- Enhanced Lontara numeral recognition through YOLOv5 technology.
- Applied YOLOv5 algorithm, optimizing for precise numeral detection.
- Published findings contribute insights to Lontara numeral recognition advancements.

Participated in the Healkathon organized by BPJS Kesehatan : Fraud Detection

- Participated in Healkathon BPJS Kesehatan, leveraging machine learning to analyze vast datasets for effective fraud detection.
- Successfully navigated Healkathon BPJS Kesehatan, applying advanced machine learning to detect fraud within extensive datasets.
- Contributed to Healkathon BPJS Kesehatan, utilizing machine learning expertise to identify and prevent fraud through comprehensive data analysis.

Sentiment Analysis on Tweets about PSE Kominfo

- Exploring dynamic insights, uncovering trending sentiments around PSE Kominfo through an in-depth analysis of social media interactions.
- Peeling back layers, this analysis delves into Twitter's pulse, revealing candid public sentiments surrounding PSE Kominfo's activities and initiatives.
- Skillfully navigating the vast sea of Twitter, we dissect sentiment waves, offering a nuanced perspective on PSE Kominfo's public reception.

PUBLICATIONS

- A Comparative Study of YOLO Models for Enhanced Vehicle Detection in Complex Aerial Scenarios

CERTIFICATES

TensorFlow Developer Certificate	<i>Feb 2024 – Feb 2027</i>
Bangkit Academy – Machine Learning Learning Path (Distinction Graduate)	<i>Jan 2024 – Present</i>
DeepLearning.AI TensorFlow Developer Professional Certificate	<i>Nov 2023 – Present</i>
TensorFlow: Data and Deployment Specialization	<i>Nov 2023 – Present</i>
Structuring Machine Learning Projects	<i>Nov 2023 – Present</i>
Machine Learning Specialization	<i>Aug 2023 – Present</i>
Mathematics for Machine Learning and Data Science Specialization	<i>Aug 2023 – Present</i>