

Muhammad Nadhif Nashrullah

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Summary

Machine Learning Engineer with a Bachelor's degree in Informatics Engineering, specializing in Artificial Intelligence. Proficient in end-to-end ML model development, deployment, and scalable AI applications, with experience in predictive modeling, time series analysis, and computer vision. Strong foundation in Python and machine learning fundamentals, built through both hands-on projects and intensive training at Bangkit Academy—sponsored by Google, Tokopedia, Gojek, and Traveloka. Skilled in collaborating with diverse teams, adaptable to new challenges, and committed to continuous learning and improvement in the AI field.

Experience

Student – Bangkit Academy led by Google, Tokopedia, Gojek & Traveloka

February 2023 – July 2023, Remote

- Gaining expertise in machine learning techniques, algorithms, and applications through a rigorous curriculum and hands-on projects.
 - Enhancing skills in data analysis, predictive modelling, and algorithm development under the guidance of experienced mentors.
 - Actively engaged in a project to implement machine learning solutions for real-world problems, leveraging the knowledge and skills acquired throughout the program.
 - Developing soft skills such as team collaboration, communication, and time management while working on team projects.
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Projects

2024 Flame AI Challenge

October 2024, Kaggle Competition

- Developed a spatio-temporal machine learning model to accurately forecast fire line propagation, addressing the complex dynamics of fire spread
- Designed an autoregressive model to predict fire progression based on historical data, leveraging temporal dependencies in the dataset.
- Implemented a ConvLSTM (Convolutional Long Short-Term Memory) architecture to combine spatial and temporal features, optimizing the model to handle both time series and spatial data for enhanced predictive performance.

Fire Forest Monthly Prediction

September 2023 – July 2024, Telkom University Purwokerto

- Utilize research methodology to investigate and address real-world problems.
- Applied advanced analytical and critical thinking to dissect problems and develop solutions.
- Conducted extensive data preprocessing and feature engineering to ensure accurate, data-driven insights for proactive fire management.
- Developed an AI-driven solution using LSTM for time series analysis to predict fire potential, applying advanced analytical skills to real-world challenges.

ReCyclo

May 2023 – June 2023, Bangkit Academy led by Google, Tokopedia, Gojek & Traveloka

- Envisioned as an innovative marketplace platform for recycling products, encourages sustainable practices by connecting users with recyclable waste and eco-friendly items suitable for daily use.
- Leveraged computer vision to classify waste types using Convolutional Neural Networks (CNN), enhancing the platform's sorting capabilities.
- Built a predictive pricing model using Linear Regression to estimate the value of recyclable materials based on type and condition, adding an economic layer to sustainable behavior.
- Deployed the solution with Tensorflow.js as centralized model for seamless access to mobile devices.

Education

Bachelor's degree, Informatics Engineering

Telkom University Purwokerto | Indonesia | September 2020 - October 2024 | GPA 3.38 / 4.0

Certifications

DeepLearning.AI Tensorflow Developer Specialization

Coursera | DeepLearning.AI | 2023

Tensorflow: Data and Deployment Specialization

Coursera | DeepLearning.AI | 2023

Machine Learning Specialization

Coursera | DeepLearning.AI, Stanford University | 2023

Google IT Automation with Python Specialization

Coursera | Google | 2023

Mathematics for Machine Learning Specialization

Coursera | Imperial College London | 2023

Involvement

Committee for the 10th Anniversary of the Informatics Engineering Study Program

Telkom University Purwokerto | Informatics Student Association | November 2022 - January 2023

Skills

Technical Skills

Python, JavaScript, HTML, Java, C++, SQL, Tensorflow, Keras, Scikit-learn, Tensorflow.js, Git

Soft Skills

Team Collaboration, Problem Solving, Communication, Time Management

Relevant Skills

Research Methodology, Project Management, Adaptability