Muhammad Nadhif Nashrullah

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Summary

Data Scientist with a foundation in AI, machine learning and data analytics. Currently working at Katalis AI, build dashboards using Google Looker Studio, write SQL queries to support data analysis and reporting, and develop predictive models to support business operations. Gained strong Python and machine learning foundation through the Bangkit Academy program. Focused on creating data-driven solutions that integrate analytics and intelligent system (AI).

Experience

Data Science Intern – Katalis AI

January 2025 – Present, Jakarta (Hybrid)

- Handle weekly report, monthly report and store audit report, involving data scraping and data ingestion to BigQuery for report update automation.
- Build dashboards using Google Looker Studio for data visualization with utilization of SQL for data analytics and reporting to support businesses team presentation with client.
- Develop machine learning model to provide insight and predictive capabilities for business operations.
- Provide data through SQL for tech team/back-end developer in development of AI Agent.

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 learning 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.

Projects

Job Match Review

December 2024, Personal Project

- Developed an interactive job-matching tool using Gradio and Google Generative AI (Gemini 1.5 Flash) to assess alignment between resumes and job descriptions.
- Applied simple prompt engineering to analyze resumes and job descriptions, delivering percentage-based compatibility scores in real-time.
- Built a Gradio-based user interface with file upload functionality and customizable prompts, providing actionable insights such as missing skills or suggested improvements.

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 in 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 Depolyment 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

Skills

Technical Skills

Google Looker Studio, SQL, BigQuery, Python, Tensorflow, Keras, Scikit-learn, Data Analysis, Data Visualization

Soft Skills

Analytical Thinking, Problem Solving, Communication, Time Management, Adaptability