REYDIKO FAKHRAN HAIDI

Surabaya, Indonesia | +6282213185236 |
reydikofakhran@gmail.com | linkedin.com/in/reydikofakhranhaidi/ |
portfolio: https://portfolio-app-oroalvhteyxvlpe5hthim8.streamlit.app/

SUMMARY

A Fresh Graduate Applied Data Science with one year of experience as a Machine Learning Engineer intern—six months each at PDAM Surya Sembada Surabaya and Telkom Surabaya. I hold a BNSP Data Scientist certification (November 2024) and specialize in building and deploying ML models for real-world applications. My core skills include NLP, image segmentation, image classification, object detection, and developing API-based ML model integration. Passionate about Machine Learning, AI, and Computer Vision, I enjoy creating end-to-end solutions and continuously keep up with evolving technologies and industry practices.

EXPERIENCE

Internship at Telkom Indonesia
Machine Learning Engineer (July 2024 – December 2024)
- Developing a Machine Learning–based Customer Service Chatbot for WhatsApp
- Building an NLP pipeline: data preprocessing, text classification model fine-tuning, model evaluation, and hyperparameter tuning.
- Implementing question embeddings and integration with a Large Language Model (LLM).
- Applying if-else logic to handle response variations based on model classification results.
- Integrating the chatbot into a Node.js server and WhatsApp API to serve customers in real time.

Internship at PDAM Surya Sembada Surabaya
Machine Learning Engineer (January 2024 – July 2024)
- Developing a Generative AI system based on PDAM's internal database to automatically answer customer inquiries
- Designing the chatbot system architecture (React + Flask + LLM) to process user queries and return relevant responses.
- Building an NLP pipeline: question normalization, out-of-topic detection, text classification, named entity recognition, and text-to-text generation.
- Integrating LLM model outputs with the company's internal API to generate narrative answers aligned with customer data.
- Implementing PDAMBot, capable of providing real-time information on zones, tariff codes, billing, and customer water usage.

Community Service Program at Yayasan Dana Sosial Al-Falah Surabaya
Data Analyst (July 2023 – Sept 2023)
- Cleaning, validating, and preprocessing data related to collected funds and distributed funds from various internal sources.
- Analyzing donation trends and patterns using statistical methods and data visualization.
- Applying clustering methods (K-Means) for donor and beneficiary segmentation based on behavior and characteristics.
- Developing forecasting models (ARIMA/Prophet) to predict collected and distributed funds for upcoming periods.
- Building an interactive dashboard using Power BI to present insights to YDSF management.

Awardee at Bank Indonesia Scholarship (GenBI PENS)
Staff of The Media and Information Division (April 2023 – April 2025)
- Participating in all Bank Indonesia events, including webinars, leadership training, etc.
- Serving as a photographer and videographer at all GenBI PENS Work Program activities.

PROJECT

Recommendation System to Reduce Stunting Prevalence Dashboard in East Nusa Tenggara Province (NTT)
Create a dashboard containing data on factors influencing the prevalence of stunting in East Nusa Tenggara (NTT) and develop a recommendation system for government Work Programs per District/City in NTT Province, based on the most influential factor affecting Stunting Prevalence, using Factor Analysis in Python. (September 2023 – December 2023)
- Create an analytical dashboard with Power BI.
- Utilize the Python library K-means to construct a Clustering model.
- Utilize the Python library FactorAnalysis to analyze the factors influencing Stunting Prevalence.

Analytical Dashboard for Yayasan Dana Sosial Al-Falah Surabaya
Developed an analytical dashboard to monitor collected and distributed funds, equipped with clustering and forecasting features to support the foundation's decision-making process. (July 2023 – September 2023)
- Read and analyze insights from fundraising and distribution data.
- Apply clustering methods using K-Means for donor and beneficiary segmentation.
- Develop forecasting models in Python (ARIMA/Prophet) to predict fundraising and distribution trends.
- Build an interactive dashboard with Power BI to present insights for decision-making.

SERTIFICATION

BNSP Data Scientist Competency Certification
National Professional Certification Agency (BNSP) | Issued Nov 2024 · Valid until Nov 2027
- Credential ID: No. 62090 2120.99 06 0000142 2024
- Field: Data Science, Machine Learning, and Artificial Intelligence (AI)

ORGANIZATION

Himpunan Mahasiswa Teknik Informatika (HIMIT) PENS
Expert Staff in Art and Sports Department (August 2023 – June 2024)
- Event Coordinator for HIMIT Sehat.
- Event Coordinator for HIMIT Boost
- Controlling Management In Sport HIIMIT Community

EDUCATION

ELECTRONIC ENGINEERING POLYTECHNIC INSTITUTE OF SURABAYA
Bachelor of Applied Data Science (B.Sc.) (2021 – 2025)
- Current Cumulative GPA : 3.73 / 4.0.

ADDITION

Languages
- Bahasa Indonesia (Fluent), English (Accurate)

Technical Skills
- Programming: Python (Transformers, NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, Plotly, TensorFlow, PyTorch, OpenCV, Keras, Django, NLTK, SciPy, Statsmodels, ggplot), R (caret, mlr, prophet, glmnet, ggplot2, readr, tidyr, dplyr, Shiny)
- Dashboard & Visualization: Power BI, Google Data Studio, Microsoft Excel
- Databases: MySQL, PostgreSQL, ChromaDB, FAISS

Soft Skills
- Leadership, Teamwork, Analytical Thinking, Continuous Learning, Adaptability