MUHAMMAD ZUHDI HANIF

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SUMMARY

Detail-oriented and data-driven individual with hands-on experience in data analytics. Proficient in Python, SQL, and, Power BI with a strong foundation in data cleaning, dashboard development, and forecasting models. Proven ability to extract insights from complex datasets and translate them into actionable business strategies. Passionate about leveraging data to drive innovation and support cross-functional decision-making.

EDUCATIONS

Telkom University   2020 – 2024

Bachelor's Degree, Informatics Engineering

- GPA: 3.91 of 4.00
- Focusing on Machine Learning and Computer Vision
- Served as a Data Laboratory Assistant in the Computer Vision course

EXPERIENCES

Data Intelligence Intern – PT Astra International Tbk   March 2025 – May 2025

Digital Strategy Group

- ICT Program: Gaining applied knowledge in Data Engineering, Data Architecture, Data Visualization, Machine Learning (using CRISP-DM methodology), Data Governance, and Project Management. Designed and developed interactive dashboards using Power BI to support internal business units with data-driven insights
- Taskforce: Collaborated in a taskforce project focused on exploring the use of Large Language Models (LLMs) to automate lead generation processes, including prompt engineering and integrating AI workflows into potential business applications
- Capstone Project: Splashbot (Databoks's Sales Planning Chatbot), Acted as Data Engineer, where responsibilities included:
    - Collecting, cleaning, and preparing structured data from Google BigQuery
    - Building data pipelines to support chatbot functionality for enhanced data accessibility and user experience
    - Creating detailed test cases to evaluate chatbot performance across a range of queries and ensuring functional

Risk Management Intern – Bank Indonesia   July 2024 – September 2024

Department of Risk Management – Major Project Assessment Group

- BI-FAST: Conducted risk analysis for the BI-FAST project, a national fast payment system. Performed root cause analysis to identify underlying issues related to interbank system integration and IT infrastructure. Contributed to developing risk mitigation recommendations to ensure operational safety and efficiency of the payment system
- Data Center: Participated in risk analysis for the development of Bank Indonesia's new data center, focusing on cybersecurity, infrastructure management, and regulatory compliance.
- Identified operational, governance, and financial risks for strategic projects and contributed to mitigation strategies
- Develop a time series forecasting model to support decision-making in managing risks with model loss to below 0.001

Data Laboratory Assistant – Telkom University   February 2024 – June 2024

Computer Vision Course

- Assisted as a Practical Assistant for the Computer Vision course, primarily responsible for supporting lecturers in practical sessions
- Assisted in developing practical modules for Computer Vision, enhancing hands-on learning experiences for students. Collaborated with lecturers to identify and address learning gaps, contributing to curriculum improvement

Mentee – Startup Campus MSIB   February 2023 – June 2023

Artificial Intelligence – Computer Vision

- Participated in the MSIB program at Startup Campus with a focus on Artificial Intelligence – Computer Vision
- Studied topics including Python Fundamentals, Data Science, Machine Learning, Deep Learning, and Computer Vision
- Completed the final project and received a score of 92

ORGANIZATIONAL EXPERIENCE

Event Staff – Dies Natalis HMIF   December 2022 – January 2023

- Participated as event staff in the Dies Natalis of Informatics Engineering program, especially in the Sport Festival
- Organized a successful sports event for the Informatics Engineering program with around 150 participants in three different sports competitions
- Played a key role in planning, coordinating, and executing the event

PUBLICATION AND ACHIEVEMENT

Infotel – Sinta 2   August 2024

Rupiah Banknotes Detection Comparison of The Faster R-CNN Algorithm and YOLOv5

- Published research on advanced computer vision techniques, showcasing strong analytical skills and expertise in data analysis and pattern recognition, valuable for identifying and addressing business requirements
  DOI: https://doi.org/10.20895/infotel.v16i3.1189

Ai4Impact Chatbot Competition   December 2022

Ai4Impact – Tiket.com and Bogor City Tourism and Culture Department.

- Participated in the Chatbot competition organized by Ai4Impact in collaboration Disparbud Kota Bogor with Tiket.com and became a finalist in the competition
- Contributed to data collection and chatbot application design

LICENCE AND CERTIFICATED

Dicoding   November 2024

- Completed Data Science Fundamental and Structured Query Language (SQL) Fundamental Course from Dicoding
- Number of Certificate: QLZ9V4NG7X5D, 0LZ04N820P65

Junior Web Developer – BNSP   April 2024

- Completed Junior Web Developer certification from BNSP with a case study on hotel ticket booking websites
- Number of Certificate: 62019 2513 4 0029428 2024

DQLAB   August 2021

- Completed Fundamental SQL using SELECT Statement, Python Fundamentals for Data Science, and R Fundamentals for Data Science courses at DQLab

ADDITIONAL

Technical Tools

Python, SQL (BigQuery), Power BI, Git, Excel, Microsoft Office, Visio, Notion, Google Suite

Analytics

Data Cleaning, Forecasting, Risk Assessment, Dashboarding

Soft skills

Time Management, Attention to Detail, Problem Solving, Teamwork, Adaptability, Communication