Muhammad Amri Hakim

Data Analyst / Data Scientist

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SUMMARY

My name is Muhammad Amri Hakim, commonly known as Amri. I graduated with a Bachelor's degree in Computer Engineering from Diponegoro University. During my studies, I gained a lot of experience in coding. Additionally, I completed a 6-month internship at DISKOMINFO Semarang, where I learned about managing web-based applications using Docker compose. Furthermore, I graduated from the Hacktiv8 Bootcamp in Data Science. Throughout the program, I acquired knowledge in data analysis using Python and SQL, as well as modeling and managing data using concepts such as machine learning, deep learning, and Apache Airflow. I am also proficient in data visualization tools such as Tableau, Looker Studio, Kibana, etc.

EDUCATION

Hacktiv8 Bootcamp — **Jakarta, Indonesia**
Data Science Program. Score: 82.34% (Transcript) — *02/2024 – 05/2024*

Diponegoro University — **Semarang, Indonesia**
Bachelor of Engineering (GPA 3.15/4.00) — *2018 – 2023*

EDUCATIONAL EXPERIENCE

Boston Consulting Group x Forage — **The Forage**
Data Science Virtual Internship — *May 2024*

- Performed an in-depth customer churn analysis for XYZ Analytics, demonstrating proficiency in data analytics and strategic problem-solving.
- Leveraged Python, Pandas, and NumPy to perform effective data analysis and create visualizations, uncovering key trend insights.
- Developed and fine-tuned a random forest model, attaining 85% accuracy in forecasting customer churn.
- Compiled an executive summary featuring actionable insights to support strategic decision-making.

WORK EXPERIENCE

DISKOMINFO — **Semarang, Indonesia**
PIP (Pusat Informasi Publik) — *January 2021 – June 2021*

- Build a website for employees by configuring LEMP in docker-compose.
- Managing the database of a web application using MySQL.
- Handling technical matters related to audio and video for mayoral meetings.
- Received a grade of 90 or an A during the internship.

SKILLS

General Skills: Exploratory Data Analysis, Time Series Analysis, Machine Learning, Deep learning.
Programming Language: Python, SQL, HTML, CSS, PHP, JavaScript
Visualization Tools: Tableau, Looker Studio, Kibana.
Libraries / Framework: Scikit-learn, Streamlit, Pandas, Numpy, Matplotlib, Seaborn, Scipy, Feature-Engine, TensorFlow, Keras.
Tools: Ms. Word, Ms. Excel, Spreadsheet, Ms. Power Point, VSCode, Docker, PostgreSQL, MySQL, Apache Airflow, NoSQL, Elasticsearch, MongoDB.
Techniques: Statistical Analysis, RDBMS, Time Series Analysis, Pipeline, NLP, ETL, ELT.
Modeling Algorithms: Regression, Classification, Neural Networks, Clustering, Dimensionality Reduction.
Others: Google BigQuery, HuggingFace, AWS.

PROJECTS

Car Price Prediction [Repository] — *July 2024*
This project aims to develop a predictive model for car prices using a dataset from Kaggle. The process involves data cleaning, feature engineering, and model training using various algorithms, including Linear Regression, Decision Tree Regressor, and Random Forest Regressor. After evaluating the models, the Random Forest

Regressor was selected for its superior performance. Post-tuning with Grid Search, the model achieved an R-squared (R^2) score of approximately 0.93, a Mean Absolute Error (MAE) of around 1,477, and a Mean Squared Error (MSE) of about 4,546,497. The model was then saved for future use, demonstrating reliable performance upon reloading.
Technology / Tools: Python, Pandas, Numpy, Matplotlib, Seaborn, Scipy, Statsmodels, Scikit-Learn, Joblib.

CurrenSee Apps [Repository] [Deploy] *May 2024*
This project aims to develop a predictive model for exchange rate values to enhance the accuracy of a customs duty calculator for shipping goods to Indonesia. By forecasting exchange rate fluctuations, businesses and logistics companies can better estimate shipping costs, aiding in effective financial planning. Four models (Linear Regression, MA, ARIMA, LSTM) were evaluated using MAE and RMSE, with lower scores indicating better performance. Results showed that Linear Regression performed well for USD, SAR, WON, THB, and SGD, while the ARIMA model was superior for the Japanese Yen (YEN).
Technology / Tools: Python, Pandas, Numpy, Time-Series Analysis, Matplotlib, Seaborn, Pillow, Tensorflow, Keras, Plotly, Scipy, Scikit-Learn, Airflow, Tableau.

Automobile Visualize [Repository] *April 2024*
This program visualizes 2 years of automobile sales data to analyze business trends. It fetches data from PostgreSQL, cleans it with Python, and loads it into Elasticsearch. After validating the data with Great Expectations, the program visualizes it using Kibana. All tasks in the Airflow DAG ran successfully on schedule, and all validation checks passed.
Technology / Tools: Python, Pandas, Airflow, Elasticsearch, GX, Psycopg, NoSQL, Kibana.

Analysis and Visualization of Data [Repository] *March 2024*
Data was cleaned and normalized with Pandas, followed by inter-column correlation analysis using hypothesis testing (P-value = 0.38). The data was then visualized using Tableau.
Technology / Tools: Python, Pandas, NumPy, Seaborn, Matplotlib, SciPy, Tableau.

CERTIFICATIONS

Hacktiv8
Data Science — *Issued on May 2024*
Certificate: ID-663d84d240121030ae4d752c-1 — *No expiration date*

Forage
Data Science Job Simulation — *Issued on May 2024*
Certificate: ID-5neJLbFQBEwvzLHrG — *No expiration date*

HackerRank
Python (Basic) — *Issued on May 2024*
Certificate: ID-4f7c792cb5df — *No expiration date*

HackerRank
SQL (Basic) — *Issued on May 2024*
Certificate: ID-c775eb7ea4a9 — *No expiration date*

Programming Hub
Python — *Issued on January 2024*
Certificate: ID-1704727258402 — *No expiration date*

Habiskerja
UI/UX (Basic) — *Issued on December 2022*
Certificate: ID-02415/VA/2022 — *December 2026*

Progate
Python (Fundamental) — *Issued on September 2021*
Certificate: ID-374aec22qzdk2j — *No expiration date*