

Banyu Nurmanjaya

Data Scientist

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SUMMARY

Entry-level Data Scientist with hands-on experience from bootcamp and personal projects in developing and evaluating machine learning models using Python and SQL. Strong programming foundation as a Software Engineering graduate, enabling data-driven insights and effective problem-solving.

EDUCATION

Hacktiv8 Bootcamp

Data Science Program. Score: 76.74% ([Transcript](#))

Jakarta, Indonesia

07/2024 - 09/2024

Wikrama Bogor High School

Software Engineering. Report Card Score: 85.61

Bogor, Indonesia

2021 – 2024

PROJECTS

[House Prices Prediction System with ZenML and MLflow](#)

June 2025

Built an end-to-end machine learning system to predict house prices using the Ames Housing Dataset, incorporating modern MLOps practices. Implemented a modular ML pipeline with ZenML and integrated MLflow for experiment tracking and model versioning. Achieved high model performance using advanced feature engineering and hyperparameter tuning.

Technology / Tools: Python, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, ZenML, MLflow, Jupyter Notebook.

[Medical Chatbot with Retrieval-Augmented Generation \(RAG\)](#)

June 2025

Built an AI-powered chatbot that answers medical questions using Retrieval-Augmented Generation (RAG) by referencing *The Gale Encyclopedia of Medicine*. The system integrates LLMs with document retrieval to ensure accurate, source-based medical responses, enhanced with voice input, TTS, and chat history saving features.

Technology / Tools: Python, Pandas, NumPy, Matplotlib, Seaborn, Python, LangChain, RAG, NLP.

[Automatic Language Detection Using Deep Learning](#)

June 2025

Developed a deep learning model to automatically detect and classify 17 global languages based on text input. Implemented and evaluated CNN and LSTM architectures on multilingual datasets for high-accuracy language identification, enabling intelligent language routing in NLP systems.

Technology / Tools: Python, Pandas, NumPy, NLP, CNN, LSTM, Google Colab.

[Stock Price Prediction Platform \(NeoVentures\)](#)

August 2024

Developed a stock price prediction platform for the top five NYSE tech companies using time series algorithms and machine learning. Achieved accurate daily closing price forecasts and deployed the best-performing model to Hugging Face, supporting investors' short-term portfolio strategies.

Technology / Tools: Python, Pandas, NumPy, Scikit-Learn, Keras, Streamlit, Seaborn, Matplotlib, Statsmodels, Apache Airflow, Docker, Tableau.

SKILLS

General Skills: Exploratory Data Analysis, Time Series Analysis, Machine Learning, Deep Learning.

Programming Language: Python, SQL, Dart, PHP, JavaScript.

Visualization Tools: Tableau, Kibana, Power BI.

Libraries / Framework: Flutter, Laravel, TensorFlow, Scikit-learn, Streamlit, Pandas, Numpy, Matplotlib, Seaborn, Scipy, Feature-Engine.

Tools: Docker, Apache Airflow, PostgreSQL, ElasticSearch.

Techniques: NLP, Computer Vision, Time Series Analysis, Forecasting.

Modeling Algorithms: Regression, Random Forest, Decision Trees, Neural Networks, Clustering, Dimensionality Reduction.

Others: Google BigQuery, Hugging Face, Figma, Canva.

WORK EXPERIENCE

PT LSKK

Bandung, Indonesia

Mobile Developer Intern

January 2023 – June 2023

- Designing intuitive UI/UX for PJU application using Figma and Flutter.
- Optimized user experience for controlling and monitoring streetlight performance.
- Developed a smart hydroponic farming system using IoT technology to automate irrigation, increasing efficiency by 20%.
- Building a dashboard to monitor real-time environmental conditions and support data-driven decision-making.

CERTIFICATIONS

HackerRank

Python (Basic)

Issued on September 2024

Certificate: [8A8D3765 OEAO](#)

No expiration date

HackerRank

SQL (Basic)

Issued on September 2024

Certificate: [3FACBFDF2B19](#)

No expiration date

HackerRank

Python (Advanced)

Issued on September 2024

Certificate: [6B985OD8AB8A](#)

No expiration date

Certiport - A Pearson VUE Business

IT Specialist - HTML and CSS

Issued on December 2023

Certificate: [EsqV-uTnS](#)

No expiration date

MAYOR'S CUP

Participants of the
Simulation Business

Issued on December 2023

Certificate: [Mayor's Cup 2023](#)

No expiration date

National Science

Semifinalist in the STEM
Young Research Awards

Issued on October 2023

Certificate: [2690/G3/PSN/BEM-G/X/2023](#)

No expiration date

Hackathon

In Completing Indonesia
GenAI Hackathon

Issued on August 2023

Certificate: [D-84c4960-ff2b-43f5-b6e9-a7e8e07f3a74](#)

No expiration date