

ARIESKA RESTU HARPIAN DWIKA

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I am a Data Engineer & Freelancer with expertise in monitoring and optimizing data pipelines and architectures to support data-driven solutions. My experience spans Machine Learning Engineering, Data Science, and Data Analytics, where I have developed and deployed predictive models for NLP, Computer Vision, and multimodal tasks using Python, Scikit-learn, PyTorch, and TensorFlow. I specialize in creating scalable ETL processes, managing data integration, transformation, and storage with big data technologies like Hadoop, as well as database systems such as MySQL and PostgreSQL. Additionally, I have a strong foundation in full-stack web development, including front-end technologies (HTML, CSS, JavaScript) and back-end frameworks (PHP, Laravel, Codeigniter), enabling me to deliver seamless end-to-end solutions that integrate data engineering, analytics, and software development.

EXPERIENCE

Data Engineer – Dua Empat Tujuh (Solusi 247)

Dec 2024 – Now

- Monitor infrastructure and applications in real-time to ensure service stability and performance.
- Handle technical issues by performing early diagnostics and providing real-time solutions.
- Manage and optimize data on big data platforms (HDFS, Hive) and relational databases (MySQL, Oracle).
- Develop Linux, Shell Script, Spark, and Python driven solutions for process automation.
- Coordinate with related teams and provide technical information to clients about system status.

Intern Big Data Analytics – Kimia Farma

Oct 2024 – Nov 2024

- Developed a comprehensive business performance dashboard using Google BigQuery for data processing and Looker Studio for visualization.
- Analyzed transaction, revenue, and profit data from over 600K transactions across 100+ branches.
- Integrated data from multiple sources including sales, inventory, and branch information for holistic reporting.

Full Stack Web Developer – YLabs Indonesia

Aug 2024 – Oct 2024

- Developed a website for the Pusat Desain Industri Nasional (PDIN) using CodeIgniter 4 and Bootstrap.
- Build features such as inventory management system, facility rent management system, and product catalog system.
- Designed and managed a relational database to support the system modules.
- Developed API for integration to mobile application.
- Collaborated with the team from Desnet to ensure project success within the target time.

Assistant Lecturer – University of Technology Yogyakarta

Feb 2023 – Jun 2024

- Provide and explain lecture materials in accordance with applicable courses and Semester Learning Plans, and evaluate the results of student work and assignments.
- Assisted in Basic Programming Algorithms, Information Technology Applications, Office Automation Applications, Big Data & Data Analytics, Object-Oriented Programming, Data Structures, Coding & Machine Learning courses.

Intern Back End Developer – Ministry of Public Works and Housing

Feb 2024 – Jun 2024

- Develop and integrate APIs on a web application system using TailwindCSS and Laravel.
- Designed and implemented database schemas and table relationships.
- Utilized Docker for efficient development and deployment.

Intern Data Scientist – Kalbe Nutritionals

Aug 2023 – Sep 2023

- Developed regression and clustering models for sales prediction and customer segmentation.
- Conducted data analysis using Python and SQL, improving inventory management and marketing strategies.
- Created interactive dashboards in Tableau to visualize sales trends and customer insights.

EDUCATION

Data Science Bootcamp – Rakamin Academy

Feb 2024 – Jul 2024

- Completed various materials such as Python, Statistics, SQL, Exploratory Data Analysis, Data Cleaning, Data Transformation, Data Visualization, Dashboard Development, Machine Learning, Deep Learning, and Deployment.

Data Analysis Course – MySkill

Jul 2023 – Sep 2023

- Completed various materials such as Data Analysis, Statistics, Business Metrics, Data Visualization, and Data Communication.

Machine Learning Engineer – Dicoding Indonesia

Aug 2022 – Oct 2022

- Complete various classes on the Dicoding Indonesia platform, such as Basic Data Visualization class, Machine Learning for beginners, Machine Learning development class, and Applied Machine Learning class.

University of Technology Yogyakarta

Sep 2020 – Jul 2024

Bachelor of Informatics, 3.78/4.00

- Relevant Courses: Data Science, Data Warehouse & Data Mining, Coding & Machine Learning, Text Processing, Neural Networks & Deep Learning, Digital Image Processing, AI Application Development.
- Completing the Informatics Capstone Project with the title "Prediksi Harga Cabai Merah Keriting Provinsi DIY dengan Metode Jaringan Saraf Tiruan".

HONOR & AWARDS

Sinta 4 Journal Article Publication

Jan 2024

- Research Title: [Implementasi Algoritma LSTM untuk Prediksi Harga Cabai Merah Keriting di Yogyakarta.](#)
- Publish in Indonesian Journal: Informatics and Communication Management (JIMIK).

Speaker at Proceeding of Seminar Nasional Inovasi Teknologi Informasi & Komunikasi

Nov 2023

- Research Title: [Analisis Pengaruh Spesifikasi Terhadap Harga Handphone Menggunakan Algoritma KNN dan Linear Regresi.](#)
- This research provides important insights for consumers and producers regarding the elements that have the most influence on cell phone prices.

Receiving Funding in the Program Kreativitas Mahasiswa (PKM) on the field Karsa Cipta (KC)

Mar 2023 – Nov 2023

- Title: [Sound-Degla \(Kacamata Pintar Penyandang Tunarungu Berbasis Artificial Intelligence\).](#)
- This project aims to develop AI-based Smart Glasses specifically designed for the hearing impaired, focusing on sound recognition (Sound-Degla) capabilities.

SKILLS & PROJECTS

- **Tools:** Python, Tensorflow, PyTorch, Scikit-learn, OpenCV, NLTK, Flask, Laravel, Codeigniter, Airflow, Nifi, Hadoop, BI Tools, Docker, SQL, Git
- **Hard Skills:** Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, API Development, Web Development, Data Analysis, Data Processing & Visualization, Data Engineering, Statistics
- **Soft Skills:** Problem Solving, Analytical Thinking, Team Work, Communication, Leadership, Agile & Adaptive
- **Language:** Indonesia and English