

# 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

<b>Data Engineer – Dua Empat Tujuh (Solusi 247)</b>	Dec 2024 – Now
<ul style="list-style-type: none"><li>Monitor infrastructure and applications in real-time to ensure service stability and performance.</li><li>Handle technical issues by performing early diagnostics and providing real-time solutions.</li><li>Manage and optimize data on big data platforms (HDFS, Hive) and relational databases (MySQL, Oracle).</li><li>Develop Linux, Shell Script, Spark, and Python driven solutions for process automation.</li><li>Coordinate with related teams and provide technical information to clients about system status.</li></ul>	
<b>Intern Big Data Analytics – Kimia Farma</b>	Oct 2024 – Nov 2024
<ul style="list-style-type: none"><li>Developed a comprehensive business performance dashboard using Google BigQuery for data processing and Looker Studio for visualization.</li><li>Analyzed transaction, revenue, and profit data from over 600K transactions across 100+ branches.</li><li>Integrated data from multiple sources including sales, inventory, and branch information for holistic reporting.</li></ul>	
<b>Full Stack Web Developer – YLabs Indonesia</b>	Aug 2024 – Oct 2024
<ul style="list-style-type: none"><li>Developed a website for the Pusat Desain Industri Nasional (PDIN) using Codeigniter 4 and Bootstrap.</li><li>Build features such as inventory management system, facility rent management system, and product catalog system.</li><li>Designed and managed a relational database to support the system modules.</li><li>Developed API for integration to mobile application.</li><li>Collaborated with the team from Desnet to ensure project success within the target time.</li></ul>	
<b>Assistant Lecturer – University of Technology Yogyakarta</b>	Feb 2023 – Jun 2024
<ul style="list-style-type: none"><li>Provide and explain lecture materials in accordance with applicable courses and Semester Learning Plans, and evaluate the results of student work and assignments.</li><li>Assisted in Basic Programming Algorithms, Information Technology Applications, Office Automation Applications, Big Data &amp; Data Analytics, Object-Oriented Programming, Data Structures, Coding &amp; Machine Learning courses.</li></ul>	
<b>Intern Back End Developer – Ministry of Public Works and Housing</b>	Feb 2024 – Jun 2024
<ul style="list-style-type: none"><li>Develop and integrate APIs on a web application system using TailwindCSS and Laravel.</li><li>Designed and implemented database schemas and table relationships.</li><li>Utilized Docker for efficient development and deployment.</li></ul>	
<b>Intern Data Scientist – Kalbe Nutritional</b>	Aug 2023 – Sep 2023
<ul style="list-style-type: none"><li>Developed regression and clustering models for sales prediction and customer segmentation.</li><li>Conducted data analysis using Python and SQL, improving inventory management and marketing strategies.</li><li>Created interactive dashboards in Tableau to visualize sales trends and customer insights.</li></ul>	

## EDUCATION

<b>Data Science Bootcamp – Rakamin Academy</b>	Feb 2024 – Jul 2024
<ul style="list-style-type: none"><li>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.</li></ul>	
<b>Data Analysis Course – MySkill</b>	Jul 2023 – Sep 2023
<ul style="list-style-type: none"><li>Completed various materials such as Data Analysis, Statistics, Business Metrics, Data Visualization, and Data Communication.</li></ul>	
<b>Machine Learning Engineer – Dicoding Indonesia</b>	Aug 2022 – Oct 2022
<ul style="list-style-type: none"><li>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.</li></ul>	
<b>University of Technology Yogyakarta</b>	Sep 2020 – Jul 2024
<i>Bachelor of Informatics, 3.78/4.00</i>	
<ul style="list-style-type: none"><li>Relevant Courses: Data Science, Data Warehouse &amp; Data Mining, Coding &amp; Machine Learning, Text Processing, Neural Networks &amp; Deep Learning, Digital Image Processing, AI Application Development.</li><li>Completing the Informatics Capstone Project with the title "Prediksi Harga Cabai Merah Keriting Provinsi DIY dengan Metode Jaringan Saraf Tiruan".</li></ul>	

## HONOR & AWARDS

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### 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

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- **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