ARIESKA RESTU

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I am a technology professional with experience spanning Data Engineering, Machine Learning, Deep Learning, Data Science, Data Analytics, and Web Development. I specialize in building scalable data pipelines and big data solutions, developing predictive models for NLP and Computer Vision, and transforming complex data into actionable insights. My technical expertise includes Python, SQL, Apache Spark, Airflow, Hadoop, PyTorch, TensorFlow, and modern Web Technologies. With a strong foundation in data processing, analytical problem-solving, and software development, I strive to build reliable, intelligent, and end-to-end technology solutions that bridge data, AI, and software engineering.

EXPERIENCE

Data Engineer – Dua Empat Tujuh (Solusi 247) — Dec 2024 – Now

- Managed 2,000+ data pipelines in Telkomsel Big Data Project using Airflow, Apache NiFi, and Flink.
- Maintained and optimized 1,500+ Hive tables across multiple data layers.
- Built and operated end-to-end ETL pipelines using Python, Shell Script, Spark, and PySpark on Hadoop ecosystem.
- Performed monitoring, troubleshooting, and pipeline optimization to ensure data reliability and performance.
- Implemented alerting using Grafana, AIOps, Kafka, and SMM, and delivered regular reports to stakeholders.

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