

Rama Dona Ariyatma

Data Engineer

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Fresh graduate in Computer Science specializing in Data Science with hands-on experience in developing end-to-end AI/ML projects. Proficient in Python and experienced with ML/AI frameworks (TensorFlow, PyTorch) and LLM tools (LangChain, GPT, DeepSeek). Familiar with databases (MySQL, PostgreSQL, Oracle) and have basic exposure to data engineering workflows using (Airflow, DBT, GCP). Published two research papers on sentiment analysis and data mining.

EXPERIENCE

South Tanjung Duren Ward

09/2023 – 11/2023

Web Development

I was responsible for developing and deploying the landing page for users and the dashboard for administrators in a village office information system project, using Laravel MVC and Database MySQL.

- Designed and built a user-friendly landing page to provide public access to service procedures, downloadable PDF forms, and upcoming events.
- Developed an admin dashboard with CRUD functionality (Create, Read, Update, Delete) for managing service information, uploading files, and publishing event announcements.
- Applied the Laravel MVC architecture to structure the system for better maintainability and scalability.
- Created and implemented UML diagrams (Activity Diagram, Use Case Diagram, Database Diagram, and Class Diagram) to model requirements, workflows, and data structures.
- Deployed the application to make it accessible for both the public (citizens) and the administrators, ensuring usability and reliability.

PROJECT-BASED EXPERIENCE

ChatBot NLP and RAG

04/2025 – Present

RamaDNA bot is AI chatbot designed to provide relevant and contextual answers based on uploaded documents, especially chatbots that have data about me. This bot uses modern NLP technology to understand user questions and provide accurate responses.

- Uses ChatOpenAI via OpenRouter (right now using LLM deepseek-r1-0528-qwen3-8b)
- Enhanced with vector storage (FAISS) and embeddings (sentence-transformers/all-MiniLM-L6-v2)
- Capable of processing PDF files and structured data (CSV/Excel if activated)
- Tools : Python, Langchain, Streamlit (deployment)
- Streamlit Link : <https://myportfoliotest-4n4gb8u7vls pawc9vbzyjo.streamlit.app/ChatBot>
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Apriori Coffee Shop Analyst

6/2025 – Present

Utilized transaction data from Kaggle (The Bread Basket dataset) to perform market basket analysis using the Apriori algorithm. Aimed to uncover frequently purchased item combinations to generate actionable business insights for future discount strategies

- Utilized transaction data from Kaggle to perform market basket analysis using the Apriori algorithm
- Identified the strongest association: Toast & Bread, with a confidence of 0.704 and support of 0.024
- Tools: Python, Google Colab, mlxtend
- Github Link : <https://github.com/RamaDNA/bread-coffee-apriori-analyst>

Developed an ETL pipeline that extracts YouTube comments for analysis. The system is capable of retrieving comments from Indonesia's trending videos as well as from specific channels (e.g., news channels) to capture public opinion and community insights.

- Built an ETL pipeline in Python to extract YouTube comments via YouTube Data API v3, transform data, and load into BigQuery (GCP).
- Orchestrated workflows with Apache Airflow, enabling automated scheduling and monitoring of ETL tasks
- Deployed the project with Docker & Docker Compose, ensuring portability and reproducibility.
- Integrated Google Cloud Service Account for secure authentication and .env for environment configuration.
- Enabled real-time reporting and visualization by connecting BigQuery data to Looker Studio dashboards.
- Designed a modular and scalable project structure (config, scripts, Airflow DAGs, Docker orchestration).
- Github Link: <https://github.com/RamaDNA/etl-youtube-channel-comment>

EDUCATION

MercuBuana University, Meruya, Jakarta Barat

Bachelor of Computer Science

03/2021 – 03/2025 | Focus: Data Science & Data Analyst

SMKN 4 Tangerang, Cikokol, Tangerang

Software Engineering

07/2015 – 05/2018

PUBLICATIONS

Analysis of Performance Labelling Sentiment Between K-Means IndoBERT And Inset Lexicon-Based

R.D. Ariyatma, B. Priambodo (2025)

Jurasik (Jurnal Riset Sistem Informasi dan Teknik Informatika)**, Vol. 10(1), pp. 58–67.

Data Mining Menggunakan Multiple Regression untuk Prediksi Harga Saham Netflix

R.D. Ariyatma, S. Fahmi (2023)

Jurnal Saintekom: Sains, Teknologi, Komputer dan Manajemen 13 (2), 184-192

SKILLS & OTHER

- **Programming & Query Languages:** Python, SQL
- **Libraries & Frameworks:** Pandas, NumPy
- **Data Architecture & Warehousing:** Medallion Architecture, Google BigQuery (GCP)
- **Data Transformation:** dbt (Data Build Tool)
- **Data Extraction:** API Integration, Web Scraping (BeautifulSoup, Scrapy), File Parsing (CSV, JSON, XML)
- **Data Wrangling & Preprocessing:** Data Cleaning, Feature Engineering, Encoding, Outlier Handling
- **Workflow Orchestration:** Apache Airflow