

Muhammad Rizq Ramadhan

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Education

Universitas Dian Nusantara

2021 - Present

As 5th Semester Computer Science Student in *Employee Class* with Cumulative *IPK 3.42*.

Program

Dicoding x IDCamp Data Science 2023

- Gained expertise in data wrangling (cleaning, manipulation, and transformation) using Pandas and data visualization with Matplotlib and Seaborn.
- Exploratory data analysis to uncovering hidden trends and predicting unseen data behavior.

Projects

Optimizing Data Processing with Concurrency | *Golang, Gorm (Postgres), Gin*

- Designed High-performance pipeline to load 15001 CSV rows and 817 JSON files into PostgreSQL within seconds.
- Leveraging Golang's goroutines and waitgroups/mutexes for synchronization and race condition handling.

Management API for Animal-Grooming | *Typescript, Express, Prisma (MySQL)*

- Developed a robust RESTful API utilizing TypeScript and Express.js, integrating Prisma for efficient database management.
- Implemented Zod for type validation, ensuring data integrity throughout the application. JWT token authentication for secure admin authorization.

Text Summarization | *Python, Flask, Javascript, Bootstrap*

- Create summarization from english text into concise bahasa with LLM models and Google-Trans library to translate the text.
- Developed a Flask API backend for processing Large Language Model (LLM) requests through asynchronous Javascript interactions. The front-end employs Bootstrap for a user-friendly interface.

Work Experience

Calibration Specialist

2021 - 2023

PT. Suryaraya Rubberindo Industries

- Led and increased team performance by enforcing detail inspections and quality standards, eliminated root causes, resulting in achievement of over 95% quality targets.
- Coordinated production schedules across multiple divisions guaranteed on-time and high-quality delivery, exceeding user satisfaction expectations.
- Proactively Identified quality and production issues, preventing delays, and minimizing production downtime, resulting smooth production flow, and maximized output.

Technical Skills

Languages : Python, Go, Javascript, Typescript, Sql

Frameworks : Flask, Gin, Gorm, Express, Bootstrap

Libraries : Pandas, Numpy, Matplotlib, Seaborn