ARIEL LESMANA

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Experience

Etherval IT Consultancy **August 2023 – Present**
Software Engineer *Surabaya, Indonesia*

- Led the development of an ERP system used daily by 10–20 users, improving performance by reducing lags in key functionalities to enhance user experience.
- Integrated AWS services such as Lambda, ECR, ECS, and S3, significantly reducing debugging time and achieving 80% reliability for AI-related functions.
- Developed a Flutter-based desktop application as a proof of concept (POC) for the Human Resource department, incorporating fingerprint functionality for authentication, though it did not pass user testing stages.
- Engineered an AI-powered fitness application with an accuracy rate exceeding 95%, leveraging Convolutional Neural Networks (CNN) and Google's machine learning libraries to track and evaluate exercise form (in progress).
- Optimized database query performance for report generation, managing datasets of approximately 10,000 records across MariaDB, PostgreSQL, and MongoDB.
- Introduced automated testing, reducing deployment errors to 2% and ensuring all integration tests are executed automatically for every branch creation.
- Collaborated remotely with a team of five members across different states, achieving rapid milestone deliveries and ensuring project deadlines were consistently met.
- Implemented a CI/CD pipeline using GitHub Actions, automating testing and deployment processes, reducing time-to-deploy, and improving production deployment success rates to 90%.

Education

Institut Sains dan Teknologi Terpadu Surabaya **July 2019 – July 2023**
Bachelor of Informatics in Computer Science *Surabaya, Indonesia*

Relevant Coursework

- Data Structures
- Machine Learning
- Artificial Intelligence
- Data Analytics
- Big Data
- Deep Learning
- Generative Algorithm
- Data Mining

Projects

Fitness Form Tracking App | *Python, TensorFlow, OpenCV* **August 2023**

- Developing an AI-powered application to track exercise form accuracy using Convolutional Neural Networks (CNN) with accuracy exceeding 95%.
- Implemented OpenCV for real-time video processing to analyze user movements and ensure proper exercise form.
- Utilizing TensorFlow to create a robust machine learning model for precise body point tracking and feedback.

ERP Inventory Stock Prediction | *Python, ARIMA, SQL* **August 2024**

- Built a feature in an e-commerce platform to predict inventory stock using ARIMA, optimizing stock levels based on past trends.
- Integrated the prediction functionality into the admin panel, enabling data-driven decisions for inventory management.
- Leveraged SQL databases to manage and query historical stock data, ensuring accurate forecasting.

Instagram Posting Bot | *Python, Selenium* **March 2023**

- Automated Instagram posting by creating a Python-based bot to manage content uploads for the account `daily_quotes_by_kelp`.
- Utilized Selenium to interact with the Instagram web interface for uploading images and setting captions automatically.
- Streamlined content management by scheduling posts and reducing manual efforts.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, TypeScript, SQL, Dart, Kotlin
Developer Tools: VS Code, IntelliJ IDEA, GitHub Actions
Technologies/Frameworks: Linux, Jenkins, Spring Boot, Flutter, TensorFlow, Selenium, ARIMA, PostgreSQL, MongoDB, Supabase