RAKA LUTHFI

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SUMMARY

Data Scientist with expertise in automating data workflows, developing advanced conversational AI, and implementing cutting-edge machine learning solutions. Proficient in ETL automation, data transformation, and database optimization, with hands-on experience in large language models (LLMs), Computer Vision, and MLOps pipelines. Passionate about leveraging analytics and AI to drive business innovation and enhance user engagement.

SKILLS

- **Technical Skills**: Python, SQL (PostgresSQL, SQL Server & MySQL), FastAPI, Airflow, PySpark, Computer Vision, NLP, Streamlit, Flask, MetaBase, PowerBI, ReactJS, JavaScript, HTML/CSS, C/C++, PHP, Langchain, RAG, OpenAI API, NumPy, Data Science, Machine Learning, Statistics, Data Extraction, Data Cleaning, Data Analysis
- **Languages**: Fluent in Bahasa, Conversational Proficiency in English

WORK EXPERIENCES

SALSATION FITNESS Feb 2025 – Present
Data & Integration Specialist *Bali (Remote)*
- Designed and built data marts to support analytics and reporting needs.
- Developed automated ETL pipelines to streamline data integration processes
- Created and deployed a Telegram-based AI chatbot using LLMs to handle member inquiries class/event lookups resulting in a 30% reduction in manual support tickets
- Created interactive dashboards and reports using Power BI for business insights
- Built forecasting models to predict membership trends and performance
- Automated email marketing workflows, including payment reminders and failure notifications
- Implemented data synchronization between customer database and email marketing software
- Delivered ad-hoc reports and analyses for managerial decision-making

BANK MEGA Feb 2023 – June 2025
Data Scientist *South Jakarta, DKI Jakarta*
- Developed chatbots with advanced retrieval-augmented generation (RAG) capabilities using LangChain, optimizing prompt engineering to enhance response quality and prevent prompt injection.
- Supported regulatory data reporting to OJK and PPATK, ensuring timely and accurate submissions in compliance with local financial regulations.
- Development of a fraud detection project to identify anomalies in high-value transactions, enhancing risk monitoring and prevention capabilities.
- Pioneered the development of an innovative credit card design solution by leveraging large language models (LLMs) for image generation, enhancing customization and user engagement
- Developed and deployed custom OCR models to extract bank e-statements (Bank BCA, Allo Bank & Bank Mega) from unstructured documents using PaddleOCR, Microsoft Table Transformer (for table detection), and OpenCV (for image processing).
- Built object detection models, including eyeglasses detection, leveraging YOLO for high-accuracy and real-time applications.
- Implemented end-to-end MLOps pipelines, including model training, API deployment with FastAPI, and performance monitoring to ensure scalability and reliability.
- Automated ETL workflows using Apache Airflow for daily scheduling and monitoring, enabling reliable and repeatable data processing.
- Provide ad hoc data analyses and reports to support business team decision-making and strategic initiatives.
- Developed interactive dashboards using tools like Metabase and Power BI, and built custom web dashboards leveraging React.js for dynamic data visualization and user-friendly interfaces.
- Created and implemented Python scripts to automate repetitive tasks, optimize workflows, and improve overall efficiency in data processing and operational activities.

BANTU NGERTI Nov 2024 – Jan 2025
Data Science Mentor *Remote*
- Guided students in mastering web scraping techniques using Python libraries and tools, including Requests, BeautifulSoup, and Selenium.
- Provided hands-on training in collecting, parsing, and structuring web data for practical data science applications.
- Integrated real-world scenarios into lessons, teaching students to navigate dynamic web content, APIs, and handling common web scraping challenges.
- Helped students gain confidence and proficiency in implementing web scraping techniques.

BANK MEGA   **Aug 2022 - Feb 2023**
IT Development Program (Data Science) Batch I   *South Jakarta, DKI Jakarta*
Participated in a management trainee program focusing on data science advancements.
- · Enhanced statistical analysis abilities with skills in probability, hypothesis testing, and regression analysis.
- · Gained expertise in the CRISP-DM model, applying it to structured data science projects for informed decision-making.
- · Mastered SQL for effective data extraction, cleaning, and processing from relational databases.
- · Enhanced Python programming skills for data science tasks including data manipulation with pandas and data visualization using matplotlib and seaborn. Implemented machine learning models with scikit-learn and TensorFlow.

TELKOM INDONESIA   **Jun 2020 - Jul 2020**
Wholesale Service Intern   *South Jakarta, DKI Jakarta*
- · Oversea daily business operations, administration and finance division.
- · Validating customers data's.
- · Processing, recording and tracking regional customers.

TELKOM INDONESIA   **Jun 2019 - Jul 2019**
Access Service Operation Intern   *East Jakarta, DKI Jakarta*
- · Installing, maintaining and monitoring fiber optic cables.
- · Troubleshooting problematic access point.
- · Coordinated with issue trouble ticket from customers to technician on site.
- · Coordinated with data recap from trouble ticket case.
- · Sales marketing and targeting for IndiHome.

EDUCATION

TELKOM UNIVERSITY   **Jan 2017 - Jan 2022**
Bachelor of Engineering, Electrical Engineering

PROJECTS

LINE FOLLOWER ROBOT

- · Designed and implemented a self-operating robot that follows a line drawn on the floor using C/C++.

LINE FOLLOWER BASED AUTOMATIC GARBAGE COLLECTOR

- · Designed and implemented a self-operating robot that follows a line drawn on the floor using C/C++.
- · Pickup a garbage infront of the robot.

OPTICAL CHARACTER RECOGNITION UTILIZATION for READING LABEL on MOVING TRAIN CAR

- · Detect and reads a label from moving train car using OpenCV and Tesseract OCR with Python.
- · Save train's label image, text and type of train car after detection into database with MySQL.
- · Build a website to show the output from database using CRUD PHP.

STOCK DATA APP WEB

- · Displaying Indonesian stocks data in real-time
- · Showing Indonesian stocks information's and fundamental

COVID-19 INDONESIA DASHBOARD

- · Visualize statistics of Covid-19 cases in Indonesia and its province

CERTIFICATIONS

- · **English Proficiency Test**: Telkom University (Score 577)
- · **IBM Cloud**:
- · **SQL (Basic)**: by HackerRank
- · **SQL (Intermediate)**: by HackerRank
- · **SQL (Advanced)**: by HackerRank