

IMRAN RIZKI PUTRANTO

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EDUCATION

Mechanical Engineering B.Eng. (Hons)

University of Bristol

10/2020 - 07/2023

EXPERIENCE

AI Researcher

Indonesia Indicator

10/2024 - Present Jakarta, Indonesia

- Developed AI solutions using LLMs integrated with tools such as vector databases and search engines, enhancing data retrieval and decision support for high-stakes government initiatives, ensuring smooth and secure execution of upcoming national events.
- Conducted in-depth analysis of extensive agricultural data spanning six databases in PostgreSQL to evaluate regional potential for self-sustained food production and opportunities for inter-regional food exports.
- Spearheaded a project utilizing LLMs to analyze employee interaction logs with the company's AI research tool, generating actionable insights on tool usage and individual efficiency, projected to boost company productivity by 15%.

Mechanical Engineering Intern

Star Energy Geothermal

07/2022 - 08/2022 Garut, Indonesia

- Evaluated suction pump performance by coordinating with three external teams, identifying key performance metrics to guide improvements.
- Enhanced pump efficiency by 20% by diagnosing and resolving a cavitation issue in collaboration with senior engineers.
- Acquired in-depth knowledge of power plant operations through hands-on experience and active observation alongside site managers.

Student Events Ambassador

University of Bristol

12/2021 - 06/2023 Bristol, UK

- Engaged with prospective students and parents during four major university recruitment events, implementing tailored engagement strategies to boost outreach effectiveness.
- Delivered guided campus tours and provided in-depth information on university programs, creating a welcoming experience for all visitors.
- Supported event logistics by coordinating schedules, managing visitor flow, and assisting with inquiries.

Chairman of BYNAMIC Fest 2019

BINUS School Serpong

10/2018 - 10/2019 Tangerang, Indonesia

- Led a committee of 450 people, coordinating task delegation across 25 divisions to ensure seamless event execution.
- Secured \$50,000 in funding by negotiating partnerships with 26 sponsors, leveraging strong negotiation and relationship-building skills.
- Generated \$15,000 in profit through event initiatives, successfully donating proceeds to support four Indonesian NGOs.

FEATURED PROJECTS

London Housing Price Analysis

07/2024 - 08/2024

- Performed market analysis on UK rental properties, identifying trends in location and amenities to assess their impact on rental preferences.
- Collected, cleaned, and analyzed data on 3,500 properties across London to ensure accuracy and relevance for insights.
- Applied statistical methods and data visualization to reveal key relationships between variables, driving actionable conclusions.

New York Car Collision Risk Assessment

07/2023 - 08/2023

- Predicted car collision frequencies by analyzing six years of data and implementing machine learning regression models in Python.
- Optimized insurance policy pricing based on collision predictions, increasing revenue by \$29 million through data-driven adjustments.

PERSONAL DEVELOPMENT

Data Scientist: Analytics Specialty

Codecademy

04/2024 - 08/2024

- Earned a comprehensive data science certification covering 22 units and 57 projects, including four portfolio-quality projects.
- Developed proficiency in data cleaning, analysis, dashboard creation, and report delivery to meet stakeholder needs.
- Executed an end-to-end analytics project, encompassing data querying, cleaning, analysis, and visualization of real-world datasets.

Leveraging Big Data for Business Intelligence

University of Cambridge

06/2023 - 08/2023

- Completed an intensive 6-week data analytics course, deepening expertise in Big Data, Data Science, and Machine Learning.
- Conducted data analysis, cleaning, and visualization for product development, leveraging Python and Google BigQuery for data-driven insights.
- Built machine learning models with Scikit-learn and TensorFlow to drive strategic decision-making and solve business challenges.