IMRAN RIZKI PUTRANTO

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EDUCATION

Mechanical Engineering B.Eng. (Hons)
University of Bristol

📅 10/2020 - 08/2023

GPA
3.7 / 4.0

High School | A Levels
BINUS School Serpong

📅 07/2017 - 05/2020

EXPERIENCE

Mechanical Engineering Intern
Star Energy Geothermal

📅 07/2022 - 08/2022　　📍 Garut, Indonesia

- Evaluated past suction pump performance by collaborating with 3 teams from external companies.
- Improved suction pump performance by 15% and increased efficiency by solving a cavitation issue with senior engineers.
- Shadowed site managers, gaining insights into power plant operations through hands-on experience and observation.

Student Events Ambassador
University of Bristol

📅 12/2021 - 06/2023　　📍 Bristol, UK

- Enhanced university outreach by coordinating large-scale recruitment events and adapting to each event's specific needs.
- Provided tours and assistance to campus visitors, ensuring they received comprehensive information of the university and its programmes.

Chairman of BYNAMIC Fest 2019
BINUS School Serpong

📅 10/2018 - 10/2019　　📍 Tangerang, Indonesia

- Led a committee of 450 people, ensuring successful event execution by delegating tasks across 25 divisions.
- Negotiated deals with 26 sponsors, raising Rp 260.000.000 in funds by leveraging partnership and negotiation skills.
- Raised Rp 242.000.000 in profit that we donated to 4 Indonesian NGOs.

FEATURED PROJECTS

London Housing Price Analysis

📅 07/2024 - 08/2024

- Conducted market analysis to understand property preferences and explore the impact of location and amenities on rental properties in the UK.
- Obtained, cleaned and analysed data on 3500 properties spread across London.
- Utilised statistics and data visualisation techniques to understand relationships between variables and draw relevant conclusions from the data.

New York Car Collision Risk Assessment

📅 07/2023 - 08/2023

- Analysed six years of data, predicting car collision numbers using machine learning regression models in Python.
- Increased revenue by $29 million by optimizing insurance policy pricing based on predicted number of collisions.
- Presented findings to both technical and non-technical stakeholders.

Computational Study of Swallowing Disorders

📅 12/2022 - 06/2023

- Developed an objective, non-invasive diagnostic method for diagnosing swallowing disorders, offering a potential replacement for traditional methods.
- Obtained and sampled x-ray images of the throat during the swallowing process.
- Simulated the human swallowing process using fluid dynamics in Python to obtain important parameters for diagnosis.

PERSONAL DEVELOPMENT

Data Scientist: Analytics Specialty
Codecademy

📅 04/2024 - 08/2024

- Completed an extensive data science certification consisting of 22 units and 57 projects, including four portfolio projects.
- Learned to clean and analyse data, build visualisation dashboards and deliver reports to stakeholders.
- Undertook an end-to-end analytics project, involving querying, cleaning, analysing and visualising real-world data.

Leveraging Big Data for Business Intelligence
University of Cambridge

📅 06/2023 - 08/2023

- Completed a comprehensive six-week data analytics course, learning about the main components of Big Data, Data Science and Machine Learning.
- Undertook data analysis, data cleansing and data visualisation for data-driven product development using Python and Google BigQuery.
- Created machine learning models using TensorFlow in Python to gain data-driven insights and resolve strategic business issues.