MUHAMMAD RISQI FIRDAUS

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EDUCATION

Institut Teknologi Bandung (ITB, itb.ac.id)   **Bandung, Indonesia**

B.Sc, Informatics Engineering   *2020 - 2024*

Related courseworks: Machine Learning, Data Science and Data Mining, Artificial Intelligence, Image Processing.

PROJECTS AND PAPERS

Development of a module for information extraction and curriculum vitae classification for candidate matching using machine learning model

IEEE International Conference on Data and Software Engineering (ICoDSE) 2024 paper

- Developed NER information extraction based on few-shot encoder base model
- ML classification with feature based on combined embedding distance calculation

LLM Based CV Extraction, Job Interview Evaluator *(2024)* code

- Developed system for CV extraction - job matching - AI interview evaluator using large reasoning model.
- Developed a fewshot system for AI Evaluator Judgement Model.

RAG for Paper QA Deep Knowledge Model using Quantized LLM Model *(2024)* code

- Developed limited hardware quantized RAG using Quantized 8bit Int Phi-3 for QnA about paper
- Developed system design for the end to end system.

Light Weight Long Online News Text Sentiment Analysis Prediction *(2023)* code

- Finetuned model using Bidirectional-LSTM for online news text sentiment
- Done within 5 hours of works for final data mining competition

Indonesian Tweet Sentiment Analysis *(2023)* code

- Sentiment analysis on a dataset of Indonesian tweets using IndoBERT and LSTM as a classifier. Achieved F1-score ranged from 60% to 97%, using various models and the preprocessing techniques.

Tilted License Plate Image Correction using YOLO and Image Wrapping *(2023)* paper

- Developed method to enhance readability of skewed license plate, YOLO model used to detect the edge, while the image wrapping was used to correct the tilt.

Comparing Multi-Model Streaming Recommender System *(2023)* presentation

- Comparing performance multiple recommender system based on pattern mining, graph and collaborative filtering for twitch dataset

WORK EXPERIENCES

Huawei Technology Co. Ltd., *Leading ICT Consulting*– Jakarta, Indonesia,

Data Analyst Engineer,   *August 2024 - Now*

- Performed PoI and area analysis to reduce latency, improved latency by 25%.
- Develop parallel building scrap mechanism from osm for market analysis, improved scraping times by 6 times.
- Led 10 analysts and engineers for merger service experience analytics team and network big data analytics platform.
- Developed a fraud retention AI model, saved hundred millions IDR monthly and was recognized by the client's CTO.

Kitalulus, *Leading Indonesia Job Market Company*– Jakarta, Indonesia

Data Analyst   *December 2023 - March 2024*

- Successfully prevented over 10.000 applicants from fraud and improved the recommendation system model.
- Evaluated and revamped ETL layer, 20 dashboards, 100 charts and successfully achieved 90 percent cost reduction.
- Scraped and analyzed data, completed over 60 requests, included investor's report along with others departement.

PT Paragon Technology and Innovation, *Leading Indonesia FMCG*– Jakarta, Indonesia

Backend Engineer Intern   *Jun 2022 - December 2023*

- Reduced manpower for warehouse management by 10 percent per month.
- Reduced cost for supplier and production operational cost up to Rp. 2.5 M per week.
- Responsible for overwriting and optimizing the queries and databases table in postgresql by critical times.

ACADEMIC EXPERIENCES

Telkom University – Bandung, Indonesia

Competition Mentor   *August 2024 - September 2024*
- Successfully helped achieved bronze medal on Gemastik 2024 Data Mining Competition
- Assisted 2 teams for the most competitive data science competition.

Institut Teknologi Bandung – Bandung, Indonesia

Course Assistant, IF3240 Information System   *August 2023 - December 2023*
- Assisted 4 teams with up to 20 students from batch 2021 to develop an information system
- Helped up to 20 students to analyze problems and implement system information solutions from real world problems.

Institut Teknologi Bandung – Bandung, Indonesia

Competition Mentor   *June 2023 - September 2023*
- Successfully helped two teams winning Gemastik Data Mining 2023, one gold medal and bronze medal.
- Arranged training and simulation for 10 teams, and mentored three finalist teams.

Institut Teknologi Bandung – Bandung, Indonesia

Lab Assistant, KU1102 Introduction to Computational   *August 2021 - December 2021*
- Managed and assessed laboratory for 2 sessions, around 60 students for introduction to python programming.
- Assisted project assignment for each team in the classes.

ORGANIZATIONAL EXPERIENCES

Himpunan Mahasiswa Informatika ITB – Bandung, Indonesia

Head of Tech Issue and Exploration Departement   *May 2023 - April 2024*
- Successfully led campus stage selection which was attended by 103 registrants, and increased by 100 percent YoY.
- Successfully led and mentored a contingent with most finalists in Gemastik 2023, by 22 finalists, increased 57 percent more than last year and finally helped ITB standing as the Second Runner-Up on General Winner.
- Successfully helped up to 500 students afford hard skill bootcamp and career mentorship for landing internships.

Himpunan Mahasiswa Informatika ITB – Bandung, Indonesia

Project Officer Student Council Election   *Jan 2023 - April 2024*
- Successfully improved election participation by 200%.
- Successfully held 4 sessions of hearing with up to 250 attendees in a single session, the most attendees in HMIF election history.

AWARDS

[International] Huawei Asia Pacific Young Excellence Employee H1 2025

Selected top 100 young employee with highest contribution among thousand young employee across Oversea AP Region

[National] Honorable Mention, Ristek Datathon 2023

2nd Best EDA and 3rd Best Feature Engineering among hundred teams.

[National] Gold Medalist, Data Mining Competition - GEMASTIK 2022

achieving best accuracy and f1-score among 140 teams.

[International] Silver Medal, Blue Carbon Counting IPB 2023

runner up by developing a carbon calculator using spatial data.

[National] Top 10 Kemenkeu Data Quals 2023

standing as the top 10 among 97 professional teams.

[International] Top 10 180DC APAC Summit Case Challenge 2023

Asia Pacific Regional scale business case competition.

[National] Top 10 Jabar Data Viz Festival

selected as top 10 among the student category for data visualization competition.

[National] Top 6th Paragon Hackathon Competition 2022

selected as the top 6 team among 144 participants.

ADDITIONAL

Certification: Advanced SQL by Hackerrank, Basic Problem Solving by Hackerrank, AWS Cloud Practitioner Associate by AWS