

Mukhammad Fahlevi Ali Rafsanjani

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Education

TELKOM UNIVERSITY

Bandung, ID

B.E in Engineering Physics, Material Engineering. GPA 3.14

2023

Relevant Coursework: Relevant Coursework: Calculus, Advanced mathematics Engineering, Computational Engineering, Measurement Engineering, Signal Processing, Statistics and Probability, Basic Programming and Algorithms, Thermal Analysis, Dynamic Systems, Automatic Control, Material Science.

Bachelor of Thesis : ZNO/PVA Prototype Nanocomposite Sensor For Detection of Cadmium Heavy Metals In Liquid Samples

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

Online

Study abroad coursework in Signal Processing.

Sep 2021 – Feb 2022

Experience

Material Modelling and Characterization Laboratory

Bandung, ID

Research Asistant's

Dec 2021 – present

- Designed ZnO/PVA nanocomposite sensor prototype with graphene for cadmium detection in liquids. Performed synthesis, characterization, and testing using I-V and Cyclic Voltammetry techniques. Cooperated with team and advisors for successful project completion.
- Investigated ZnO/Graphene/PVA nanocomposite sensor for cadmium detection. Synthesis and characterization using various techniques. Regular communication with team and advisors.
- Built and tested sensor prototype using Cyclic Voltammetry at BRIN. Maintained effective communication with team for project milestones.

Amanin International

Bandung, ID

Artificial Intelligence Engineer Intern

Mar 2022– Jul 2022

- Led Mood Sensing and Road Object Detection project using Neural Networks and Python, resulting in a 60% improvement in Mood Sensing accuracy.
- Analyzed and visualized data, identifying and correcting data imbalances using TensorFlow and other Data Science tools, leading to a more robust model.
- Optimized workflow with Agile Scrum Principles and JIRA within 1 week, increasing team productivity by 20%.
- Assisted interns in developing AI and related technology skills and knowledge, conducting training sessions for 13 interns.

PT Bluebird Tbk

Online

Machine Learning Engineer Intern

Feb 2022 – Mar 2022

- Developed AI for IoT at PT Bluebird Tbk, focusing on Object Detection on Bluebird's four-wheeler vehicles using API 27.
- Deployed Yolo V5 on Android and tested it on various devices within Bluebird cars, achieving real-time object detection at 30 FPS.
- Utilized Python, PyTorch, Android Studio, TFLite, Kotlin, and Java to analyze data and implement AI solutions, contributing to the successful execution of the project.

Leadership

Intelligence Systems and Machine Learning Laboratory

Bandung, ID

Research Coordinator

Sep 2022 – present

- Supervise and coordinate research projects within the Machine Learning Laboratory, overseeing a team of 9 research assistant and achieving a 15% increase in project efficiency.
- Acquire and analyze data, ensuring adherence to project timelines and objectives.
- Facilitate training programs for new research assistants, including the Machine Learning Bootcamp, training and mentoring 20 assistants in the past year.

Skills & Interests

Techniology: Familiarity with HTML, CSS, Qiskit, Pytorch.

Proficient in Python, TensorFlow, Pandas, Keras, Scikit-Learn, Machine Learning, Deep Learning, Tableau, MySQL, BigQuery, Excel, Word, Fusion360, Sketch.

Laboratory : Chemical Solutions, Potentiostat (3 Probe), I-V Measure, thin film deposition, Sonication, Stirring, Flush, UV-Vis, Microscope, Cyclic Voltammetry.

Language : Indonesia (Native), English (Intermediate)

Awards

Completed all Quantum Challenge

IBM Quantum Spring Challenge 2022

New York, US
2022

Competition Scholarship

Telkom University

Bandung, ID
2022

National Essay Competition 1st Winner Awards

Tadaluko University, Tadaluko Data Challenge 2021.

Tadaluko, ID
2021

International AI Inspired Hackathon 2nd Winner Awards

Deakin University, Hacker Exchange (HEX), The Hack Deakin – AI Inspire Hackathon 2021.

Melbourne, AU
2021

Hackathon Competition Top 100 Innovative Idea

Bank Negara Indonesia, BNI Hackathon Festival 2021.

Malang, ID
2021

National Startup Competition Top 50 Innovative Start-Up

WuHub, Huawei, KOLABPRENEUR 2021.

Jakarta, ID
2021

National Data Science Competition (People Analytics Category) Top 50 High Accuracy

Bank Rakyat Indonesia, BRI Data Hackathon 2021.

Jakarta, ID
2020

Millennial Innovation Competition Finalist Awards

Institute Technology of Harapan Bangsa, Colosseum 4.0 Millennial Competition.

Bandung, ID
2019