

DESY KHALIDA MAHARANI

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LAST-YEAR COMPUTER SCIENCE STUDENT

 [linkedin.com/in/desykhmaharani](https://www.linkedin.com/in/desykhmaharani)

I am a passionate and driven last-year Computer Science student at Albukhary International University, Malaysia, specializing in Data Analytics, IoT and UI/UX Design. I have gained hands-on experience through a range of academic, projects and Internship, applying advanced programming, algorithmic, and system design skills to solve real-world problems. I am eager to leverage my knowledge and skills in a dynamic professional setting.

EXPERIENCE

DATA ANALYST INTERN (HR)

Talenesia

July 2024 - October 2024

- Collected and analyzed human capital data to support strategic HR decision-making.
- Created performance management and time budget dashboards, automating data tracking and reporting.
- Collaborated on data-driven HR projects, focusing on talent acquisition, employee engagement, and performance outcomes.
- Maintained accurate and compliant employee databases, improving data integrity.
- Conducted data analysis on HR projects, providing actionable insights to senior management.

TEAM LEADER, SMART BIN PROJECT

Biji-Biji Initiative Malaysia & US Embassy in Malaysia

November 2023 - Present

- Led a multidisciplinary team on the 1st place winning project, securing 5,000 ringgit in funding through a competitive proposal process.
- Oversaw the ongoing development of a smart bin to promote sustainable waste management; the project is advancing into a tangible, deployable product that classifies waste as recyclable or non-recyclable.
- Enhanced skills in project management, machine learning, and hardware-software integration; gained proficiency in Python, Computer Vision, and IoT applications to support product development.

GOLD AWARD - OUTSTANDING ACHIEVEMENT AS RESEARCH PRESENTER

The Academy International Gifted Enrichment Research & Innovative Seminar (TIGERS)

12 September 2024

- **Smart Bin Project:** Developed an IoT and machine learning-based system for real-time waste classification, enhancing recycling efficiency.
- Secured funding and contributed to Malaysia's sustainability goals by supporting national recycling targets.

CERTIFICATIONS AND TRAINING

SAP ANALYTICS CLOUD (SAC) TRAINING

ASEAN Foundation & SAP collaborated with Pemimpin.id

26 May 2023 - 30 May 2023

- Enhanced data analysis skills through intensive training on SAP Analytics Cloud (SAC).
- Gained proficiency in Data Modelling, Smart Discovery, Designer Mode, Data Explorer Mode, and Styling.

AWS ACADEMY GRADUATE - MACHINE LEARNING FOUNDATIONS

AWS Academy

01 May 2024 - 31 May 2024

- Mastered foundational machine learning concepts, including supervised and unsupervised learning, data preprocessing, and model evaluation.
- Developed practical experience using AWS services for building, training, and deploying scalable machine learning models.
- Applied machine learning techniques to real-world data sets, enhancing skills in feature engineering and model optimization.

PUBLICATION

PERFORMANCE COMPARISON OF MACHINE LEARNING MODELS TO REDUCE MISDIAGNOSIS RATES IN PSYCHIATRIC DISORDER USING EEG DATASET

Journal of Data Analytics, Information, and Computer Science, 1(3), 114-127.

Munada, W., Maharani, D. K., & Sofiana, A. (2024).

- **DOI:** <https://doi.org/10.59407/jdaics.v1i3.967>
- **Keywords:** Machine Learning, Psychiatric Diagnosis, LightGBM, CatBoost, Logistic Regression.
- **Abstract Summary:** Conducted a comparative analysis of LightGBM, CatBoost, and Logistic Regression models using an EEG dataset to identify the most accurate predictive model for psychiatric diagnosis. Found that LightGBM achieved the highest accuracy and F1 score, demonstrating its potential to improve clinical outcomes by reducing misdiagnosis rates in mental health contexts.

RELEVANT SKILLS

- Python, R, Java, SQL, C
- IoT, Google Spreadsheet
- Data Analysis, Analytical Skills
- UI Design
- Project Management & Planning
- Problem Solving & Teamwork

EDUCATIONAL HISTORY

ACCELERATION STUDENT

MAN Bangkalan,

2018 - 2020

ACCELERATION STUDENT

MTsN Bangkalan,

2016 - 2018

AWARDS

AWARDEE OF CENDEKIA BAZNAS

SCHOLARSHIP

October 2021 - Present

Full Scholarship

AWARDEE OF ALBUKHARY INTERNATIONAL UNIVERSITY SCHOLARSHIP

October 2021 - Present

Full Scholarship