MOHAMAD AZRAI BIN MAHADAN

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EDUCATION

Korea University	*Seoul, South Korea*
Bachelor of Engineering in Computer Science and Engineering	*Mar 2021 - Feb 2023*
CGPA : 4.0/4.5	

Dongyang Mirae University	*Seoul, South Korea*
Associate's Degree in Computer Information Engineering	*Mar 2019 - Feb 2021*
CGPA : 4.02/4.5	

Seoul National University	*Seoul, South Korea*
Korean Language and Culture Program	*Mar 2018 - Feb 2019*

PROFESSIONAL EXPERIENCE

Telekom Malaysia	*Kuala Lumpur*
AI/ML Engineer	*Jul 2023- present*

Division Network Analytics & Service Excellence,
Group Network and Technology

- Performed data preprocessing (normalization, transformation, and imputation) to prepare network and demand datasets for machine learning.
- Built time series models for seasonal trend analysis, anomaly detection, and forecasting, improving accuracy through fine-tuning.
- Analyzed patterns and relationships across large network datasets to generate actionable insights for network and business performance improvements.
- Designed and automated analytics pipelines on platforms like CDSW to meet network and business requirements.
- Developed AI/ML solutions for production environments, leveraging Large Language Models, Computer Vision, and AI service orchestration.

Malaysia Investment Development Authority	*Seoul, South Korea*
Intern	*Jan 2022 – Mar 2022*

- Helped preparing situation report on various manufacturing industries in South Korea that have potential to invest in Malaysia.
- Developed automated application to organize database collection using Excel.
- Participated in stakeholder meetings and shared opinions as student representative.

- Advised current image and video editing to help advertising the company.

PROJECTS

Face Analysis for Customer Segmentation using Deep Learning   *Dec 2022*
(Capstone Design)

- Developed web application that helps predicting and automatically analyzing the demographic information of shop customers in real time. Used Tensorflow as deep learning framework for model development with OpenCV and Flask in model deployment stage. The collected prediction data are automatically post-processed by Microsoft Excel. The project has been awarded the encouragement prize.

Lost and Found Center   *Nov 2020*

- A web service that was developed to solve the problem of missing personal items among in-campus students. Assigned to develop the back-end works by using PHP and monitor the database by using MySQL Developed from scratch based on the idea of existing service to improve user experience and convenience.

TRAINING

Deep Learning Specializations Certification, DeepLearning.AI   *Jul 2022*
- Built neural network architectures such as Convolutional Neural Networks, Recurrent Neural Networks, LSTMs and Transformers.
- Applied Python and TensorFlow to solve problems including speech recognition, music synthesis and natural language processing.

IBM Data Science Professional Certificate, IBM   *Jan 2022*
Among courses taken:
- Data Science Methodology, Databases & SQL, Data Analysis with Python, Data Visualization and Machine Learning

HONORS AND AWARDS

Jinri(Truth) Program Scholarship, Korea University   *2022*
Received by winning encouragement prize in capstone design competition.

Global Leader Scholarship, Korea University   *2022*
Participated in Universitas 21 Micro-Internship and Global Citizens Program.

International Student Scholarship, Dongyang Mirae University   *2020*

Yayasan TM Talent-A Scholarship, Telekom Malaysia   *2017*

LEADERSHIP AND VOLUNTEERISM

Generasi Mahasiswa Islam Korea (GMIK)   *Seoul, South Korea*
Vice President (Financial)   *Nov 2020 – Present*
- Organized student development events including preparing masterplan for leadership and training seminars.
- Lead meetings and supervised sub-committee work plan.
- Managed account cash flow and set up an organized bookkeeping system.

Economic Bureau Member   *Nov 2018 – Oct 2020*
- Planned activities to generate incomes including food sales and services.
- Helped the Treasurer organizing the cash flow.

Malaysia Students' Association in the Republic of Korea   *Seoul, South Korea*
Student Mentor   *Mar 2021 – Nov 2021*

- Helped new students adjust to culture and life in South Korea.

Funday Korea Networks   *Seoul, South Korea*

Volunteer   *Oct 2019 – Aug 2020*
- Participated in Korean Intangible Cultural Heritage Festival in Jeonju, South Korea and tour of Hanyang Wall
- Had been selected as a participant for 'Donuimun Museum Village Project #2' in conjunction of Hangul (Korean Alphabet) Day.

Seoul Tourism Organization   *Seoul, South Korea*
Volunteer   *May 2019*
- Represented Muslim community in Korean government's inspections about Muslim tourist convenience facilities in Seoul.

COMPUTER SKILLS

Programming: Python, C, C++, R, HTML & CSS, PHP, SQL, Javascript, Java

Applications: Microsoft Excel, Photoshop, Keras, Tensorflow, Tensorflow-js, Pandas, MySQL, Apache Hive, Apache Impala, OpenCV

Platforms: Jupyter Notebook, Visual Studio Code, Hue, Google Colab, Brackets, Eclipse

LANGUAGES

Malay: Native

English: Fluent
Test of English as International Communications (TOEIC): 970/990

Korean: Fluent
Test of Proficiency in Korean (TOPIK): Level 6

Japanese: Intermediate
Japanese Language Proficiency Test (JLPT): N2