

HAZMAN NAIM BIN AHSAN

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Professional Experience

RENAISSANCE AI

AI Developer

Kuala Lumpur, WP Kuala Lumpur

October 2023 – Present

- Part of the Research and Development team, innovating and implementing AI technologies for various applications, including product embedding generator, e-commerce recommender system, development of a speech-to-text application and spam detection algorithm.
- Collaborated with a cross-functional AI backend team to analyse business requirements, skillfully translating them into scalable and efficient AI solutions that significantly contributed to client satisfaction.
- Experienced in deploying machine learning models using the FastAPI framework and AWS EC2 service, with proficiency in using Postman for API testing.

Training and Certification

IBM AI ENGINEERING PROFESSIONAL CERTIFICATE

[Link to Repository](#)

November 2023

DATA SCIENTIST BOOTCAMP-GENERAL ASSEMBLY (K-YOUTH DEVELOPMENT PROGRAMME)

[Link to Repository](#)

October 2023

KPMG AU DATA ANALYTICS VIRTUAL EXPERIENCE PROGRAM ON FORAGE

[Link to Repository](#)

August 2023

Projects

COMPUTER VISION-CONCRETE STRUCTURE DEFECT DETECTION WITH U-NET

[Link to Project](#)

December 2023

- Implemented and trained an EfficientNet-B1 U-Net model for concrete structure defect detection using deep learning techniques.
- Trained the model for 60 epochs and assessed performance using Jaccard and Dice indices.

KAGGLE COMPETITION-BINARY PREDICTION OF SMOKER STATUS USING BIO-SIGNALS

[Link to Project](#)

November 2023

- Developed a predictive model for smoker status, achieving an impressive 0.87178 AUC score through the integration of a sophisticated approach, including a weighted-voting ensemble of three tree-boosted algorithms, cross-validated predictions, and optimal parameter tuning using Optuna.

- Secured a top 28% position on the Kaggle data science platform, outperforming 1908 fellow data scientists and machine learning practitioners in an open and highly competitive competition.

Education

UNIVERSITI MALAYA

Bachelor of Science, Physics

Kuala Lumpur, WP Kuala Lumpur

September 2019 - March 2023

- Grade: *Pass with Honours*
- Cumulative Grade Point Average (CGPA): 3.68
- Best Presentation Award for Final Year Project “Studies on Bipolar Outflows in Star Forming Region AFGL5142 with ALMA”.

UNIVERSITI MALAYA

Foundation Studies in Science (Physical Science)

Kuala Lumpur, WP Kuala Lumpur

September 2018 – August 2019

- Grade: *Pass and Completed*
- Cumulative Grade Point Average (CGPA): 4.00
- MUET: *Band 3*

Skills

Programming Language	Python (Experience), SQL (Experience), R (Beginner), C (Beginner), Latex (Experience)
Softwares and Tools	GitHub (Intermediate), Jupyter (Intermediate), Anaconda (Intermediate), R Studio (Beginner), AWS EC2 (Beginner), Power BI (Experience)
Data Science	Data Preprocessing, Data Visualization, Data Analysis, Model Development, Machine Learning, Deep Learning, Model Evaluation, NLP, Computer Vision, Artificial Intelligence, Image Processing
Libraries and Packages	Scikit-learn, TensorFlow, PyTorch, Keras, Matplotlib, Pandas, NumPy, SciPy, Seaborn, Plotly, Folium, Dash, Flask, FastAPI, OpenCV

Honours and Awards

GOLD HONOUR - International Astronomy and Astrophysics Competition

July 2021

Leadership and Service Positions

CONTRIBUTOR – Malaysia AI (Development of first Malaysian LLM)	Present
VOLUNTEER – Apadilangit Volunteers Community	Present
VOLUNTEER – Volunteering Secretariat Universiti Malaya	December 2021
VOLUNTEER – Astronomers Without Borders	December 2020