

HAZMAN NAIM BIN AHSAN

Hutan Melintang, Perak

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Portfolio: hazmannaim.github.io

Professional Summary

A detailed-oriented graduate of Bachelor of Science in Physics from Universiti Malaya with a second upper-class 3.68 CGPA. Recognized as a gold medallist in the International Astronomy Astrophysics Competition 2021. Currently participating in the K-Youth Development Programme, an initiative by Khazanah Nasional Berhad (Khazanah) aimed at nurturing Malaysia's future talents. Seeking a data science position in technology fields to leverage expertise in machine learning, programming and deep learning.

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*

Professional Experience

FREELANCE

Personal Tutor

Seri Iskandar, Perak

March 2023 – Present

- Provided individualized tutoring services to students struggling in mathematics and physics, prioritizing the application of concepts and fostering a deep understanding, resulting in a 25% average improvement in their grades.
- Received consistent positive feedback from students, with 90% reporting improved comprehension, increased confidence, and enhanced problem-solving skills in mathematics and physics.

MALAYSIA NUCLEAR AGENCY

Research Intern

Bangi, Selangor

July 2022 – September 2022

- Collaborated with other 3 team members on research projects related to plasma focus, fostering a collaborative and cooperative work environment that facilitated knowledge sharing and enhanced project outcomes.
- Assisted engineers and science officers in equipment maintenance and troubleshooting, ensuring smooth operation of various scientific equipment.

Skills

Programming Language	Python, SQL, R, C, Latex
Softwares and Tools	GitHub, Jupyter, Anaconda, R Studio, Power BI
Data Science	Data Preprocessing, Data Visualization, Data Analysis, Model Development, Machine Learning, Deep Learning, Model Evaluation
Libraries and Packages	Scikit-learn, Keras, Matplotlib, Pandas, NumPy, SciPy, Seaborn, Plotly, Folium

Training and Certification

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE

August 2023

- **Courses:** Introduction to Data Science, Tools for Data Science, Data Science Methodology, Python for Data Science, AI and Development, Python Project for Data Science, Databases and SQL for Data Science with Python, Data Analysis with Python, Data Visualization with Python, Machine Learning with Python, Applied Data Science Capstone
- [Link to Repository](#)

Projects

MODELLING AND PREDICTING HOUSING PRICES IN KING COUNTY, USA: ANALYSING HOUSE SALES DATA

Data Science Project

August 2023

- **Objective:** Developed a machine learning model to predict house sales prices in King County for informed real estate decisions.
- **Methodology:** Utilized a 31,613-row, 20-feature dataset from Kaggle (May 2014 to May 2015). Explored correlations, conducted data refinement, and built 17 models using techniques like Linear Regression, Ridge Regression, Lasso, Support Vector Regression, and Random Forest.
- **Process:** Conducted data preprocessing for quality and consistency, delved into exploratory data analysis to reveal key insights, created diverse models with various algorithms, ensured robust assessment through 5-fold cross-validation, and optimized models using hyperparameter tuning.
- **Result:** Highlighted the 'Random Forest Regressor-3' (rf3) as the optimal model, showcasing high cross-validated R2 (0.874) and low RMSE (129,475.67).
- [Link to Repository](#)

Honours and Awards

GOLD HONOUR - International Astronomy and Astrophysics Competition

July 2021

Leadership and Service Positions

VOLUNTEER – Apadilangit Volunteers Community	Present
VOLUNTEER – Volunteering Secretariat Universiti Malaya	December 2021
VOLUNTEER – Astronomers Without Borders	December 2020