

Ahmed Adel Sanhan Al-Haidary

Data Scientist & Software Engineer

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PROFILE

A highly motivated software engineer and data scientist with strong expertise in big data storage, machine learning, and data visualization. Experienced in front-end development using HTML, CSS, and JavaScript. Skilled in implementing advanced AI algorithms, such as GANs for data augmentation and CNN models for image classification, to improve data quality and model performance. Proficient in data preprocessing, model training, and evaluation using Python libraries like TensorFlow and PyTorch. Passionate about contributing to impactful projects in fast-paced environments and committed to continuous learning.

EDUCATION

Master of Science: Data Science and Analytics

Universiti Sains Malaysia (USM)

03/2024

Penang, Malaysia

Completed Coursework: Machine Learning, Big Data Storage and Management, Data Visualization and Visual Analytics, Enabling Technologies and Infrastructures for Data Science, Business Intelligence and Decision Analytics, Predictive Business Analytics, Multimodal Information Retrieval, Research, Consultancy, and Professional Skills.

Bachelor of Science: Software Engineering

Universiti Malaysia Pahang (UMP)

01/2022

Pahang, Malaysia

Achieved Dean's List award five times.

PROFESSIONAL EXPERIENCE

Data scientist Intern

Persatuan Dyslexia Malaysia (PDM)

10/2023 – 02/2024

Kedah, Malaysia

- Conducted data preprocessing, quality assurance, and intense performance evaluation.
- Implemented GAN-based data augmentation to address data imbalance, enhancing model accuracy.
- Developed an automated dyslexia diagnosis system using deep learning on handwriting images.

Web developer Intern

Bike Bear Sdn Bhd

08/2021 – 02/2022

Kuala Selangor,
Malaysia

- Engaged with customers to understand their requirements and implement feedback.
- Collaborated with teams to ensure on-time, within-scope project delivery.
- Executed website data migration, ensuring content integrity and accuracy.
- Developed and updated web pages, managing live site changes and troubleshooting errors.

LANGUAGES

Arabic

Native speaker

English

IELTS 5.5

PROJECTS

Machine Learning

- Produced a stroke prediction model using various machine learning algorithms to predict stroke probability and identify key features.
- Constructed a Parkinson's prediction model using algorithms to predict severity and factors affecting it.
- Forecasted weekly sales for Walmart using the Walmart sales dataset.
- Analyzed the U.S. used car dataset using Cassandra and MongoDB.
- Conducted aerial landscape image classification using CNN and transfer learning.

Data Visualization

- Developed a dashboard to visualize QS World University Rankings from 2017 to 2022.
- Built a customer shopping dashboard to track trends: demographics, favorites by generation, and hot items by location.

Software Engineer

- Developed a mobile-based snake classification application using Flutter.
- Developed a delivery website.
- Built a car parking system using NetBeans and Java.

SKILLS

Data Science

- **Machine Learning Algorithms:** Regression, Classification, Clustering, Market Basket Analysis, Recommender Systems .
- **Deep Learning:** Generative Adversarial Networks (GANs), Convolutional Neural Networks (CNNs).
- **Data Analysis:** Exploratory Data Analysis (EDA), Statistical Analysis.
- **Data Visualization:** Power BI, Excel, Tableau, Matplotlib, Seaborn.

Software Engineering

- **Programming Languages:** Python, R, PHP, Java, Dart , C.
- **Databases:** MySQL, MangoDB .
- **Web Technologies:** HTML, CSS, JavaScript, WordPress.

Soft Skills

Team Collaboration • Problem-Solving • Communication • Attention to Detail • Leadership • Critical Thinking.

REFERENCES

Dr. Anis Farihan Binti Mat Raffei, *Senior Lecturer*, Universiti Malaysia Pahang
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Dr. Nibras Abdullah Ahmed Faquera, *Lecturer*, Universiti Sains Malaysia
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