ABDELRAHMAN USAMA GABR ABDOU HABIB

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ABOUT ME

An objective-oriented with practical experience in biomedical engineering, data analysis, image processing, web/app development, AI/ML, technical design, troubleshooting, problem solving, and execution of the solution. Work well under pressure, self-initiative, detail-oriented, and highly motivated to deliver jobs at its best quality and within the deadline.

WORK EXPERIENCE

Part Time Full Stack Engineer
Health Digital Technologies SDN BHD (DoctorOnCall) [01/09/2022 – Current]

Junior Developer
Health Digital Technologies SDN BHD (DoctorOnCall) [02/2022 – 01/09/2022]

City: Kuala Lumpur
Country: Malaysia

AI & Tech Intern
Health Digital Technologies SDN BHD (DoctorOnCall) [06/2020 – 03/2022]

City: Kuala Lumpur
Country: Malaysia

Biomedical Engineer Intern
King Saud Medical City (KSMC) [05/2019 – 07/2019]

City: Riyadh
Country: Saudi Arabia

EDUCATION AND TRAINING

MSc in Medical Imaging and Applications
Université de Bourgogne, University of Cassino, University of Girona [07/09/2022 – Current]

Address: (Italy)

Bachelor of Engineering (Biomedical)
Universiti Teknologi Malaysia (UTM) [2016 – 11/04/2022]

Address: Johor Bahru (Malaysia)
Final grade: 3.91 / 4.00

Awarded the "Dean List" every semester and Bachelor of Engineering (Bio-medical) with Honours.

AI for Healthcare Nanodegree Program
Udacity [04/08/2021 – 10/11/2021]

Website: https://confirm.udacity.com/QCGK5GRP

DIGITAL SKILLS

Programming Languages

Python / MATLAB / C Programming / Java / HTML5 / jQuery / Bootstrap / Vanilla JavaScript / Embedded JavaScript (EJS) / Express.JS / NodeJS / CSS / NextJs

Machine Learning Libraries

Keras / Pandas / Tensorflow / Numpy / Pytorch / Matplotlib / OpenCV / Scikit-Learn / Seaborn

Cloud Services

Google Cloud Platform / Amazon AWS / Heroku Cloud / Firebase

Others

Solidworks / Client Side Programming / Automated Testing / Websockets / Image Processing / Android Development / Git / WebRTC / Server Side Programming / Robotic Process Automation

HONOURS AND AWARDS

Erasmus Mundus Joint Master (EMJMD) scholarship - (grant value 42,000 EUR)

[09/2022]

Highly competitive & prestigious scholarship offered to top-ranked applicants provided by the European Union [2022-2024] for master programs.

1st Place Global Winner (Prizes valued $40,000 USD)

UN AI for Good Innovation Factory [08/12/2021]
Link: https://aiforgood.itu.int/a-win-for-health-ai-for-good-announces-winner-of-the-innovation-factory-grand-finale/

DreamCatcher Best Demo Video Award (3,000 MYR)

DreamCatcher | Innovate Malaysia Design Competition 2021 [08/08/2021]
Link: https://innovate.dreamcatcher.asia/winners2021.html

DreamCatcher 2nd Runner-up AWS Technology Track (1,000 MYR)

DreamCatcher | Innovate Malaysia Design Competition 2021 [08/08/2021]
Link: https://innovate.dreamcatcher.asia/winners2021.html

TGL Design Challenge Best Video Award

TheGreatLab | TGL [12/2020]

Chipta 2nd Runner-up Winner (4,000 MYR)

CHIPTA [11/2020]

PROJECTS

Pneumonia Detection from Chest X-Rays

Developed a binary image classification model using NIH Chest X-ray image dataset to classify 2D chest x-ray for the presence or absence of pneumonia.

Hippocampal Volume Quantification in Alzheimer's Progression

Successfully built an end-to-end AI system that features a machine learning algorithm using U-Net architecture to build the segmentation model, which is then integrated into a clinical network to quantify hippocampal volume for Alzheimer's progression.

Skin Cancer Classification

Successfully built, trained, and deployed an image classification model using a pre-trained MobileNet model to classify between seven different image classes that represent skin lesion images. The dataset used was the HAM10000 skin dataset and the project was deployed successfully as a service for the public to use as a web application.

Healthcare AI: A platform for building, training, and deploying state-of-the-art machine learning classification models with no prior knowledge or coding experience.

Successfully developed an end-to-end web application that provides a service of building an image classification models with no coding required. This project included developing the web application, a machine learning pipeline that handles data processing, model training, and deployment.

COMMUNICATION AND INTERPERSONAL SKILLS

UTM Toastmasters - Public Speaking

• Awarded as "The Most Dynamic Ace' member for 2017/2018.

• Performed roles as speech evaluator, grammarian, table topic master, and hosted meetings.

• Completed my pathway until Innovative Planning 2 (IP2).