

MEHDI SMAIL

Data Scientist

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EDUCATION & CERTIFICATIONS

Master of Science in Data Science/ University Technology Malaysia (UTM), Johor Bahru	03/2024
Relevant Courses: Statistics, Big Data Management, Big Data Computing, Data Science Governance, Business Intelligence and Analytics, Massive Data Mining and Streaming, Operational Research and Optimization	
Bachelor Of Engineering in Mechatronics/ International Islamic University Malaysia, Kuala Lumpur	03/2022

SKILLS

Python (NumPy, Pandas, Scikit-learn, TensorFlow)

Databases: SQL(MySQL), MongoDB

Data Analysis and Visualization: PowerBI (Data modeling, Report creation, DAX), Tableau, Excel

Machine Learning: Statistical Modeling, Regression, Classification, Deep Learning, Model Evaluation and Optimization

RELEVANT PROJECTS

Traffic Volume Prediction Using TCN 11/2023 – 01/2024

- Spearheaded research utilizing TCNs in TensorFlow/Keras for a time series dataset, surpassing ARIMA, LSTM, and GRU models for urban traffic volume prediction.
- Conducted data preprocessing and exploratory analysis using Python, Pandas, and Scikit-learn, ensuring model accuracy and stability.
- Developed a Tableau dashboard for real-time traffic predictions, incorporating insights on variables affecting traffic volume, and facilitating informed urban planning decisions with interactive visualizations.

The Reading Vision for the Blind 10/2021 – 03/2022

- Developed an AI-assisted solution utilizing NVIDIA Jetson Nano hardware with Ubuntu as the operating system. TensorFlow was employed for training handwritten text recognition models, Tesseract OCR for printed text recognition, and Google Cloud Vision & Text-to-Speech APIs for online functionality.
- Integrated TensorFlow and Tesseract OCR on the Ubuntu platform, ensuring seamless operation and compatibility with the NVIDIA Jetson Nano hardware.
- Designed a user-friendly interface with a custom 3D-printed housing for the Ubuntu platform, alongside implementing a text-to-speech module, ensuring accessibility and ease of use for visually impaired individuals.

PROFESSIONAL EXPERIENCE

IT Trainer (Internship) 07/2021 – 10/2021
KIDOCODE, Malaysia

- Facilitated comprehensive training sessions on web technologies including HTML, CSS, JavaScript, Bootstrap, Django, and Flask, empowering students to grasp fundamental and advanced concepts.
- Spearheaded instruction on robotics hardware, covering microcontrollers, sensors, actuators, motors, and control systems, fostering a practical understanding among learners.
- Collaborated closely with the content development team to craft industry-relevant educational materials and hands-on projects tailored to the dynamic fields of web development and robotics/electronics.