

# DEQYA

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## EDUCATION

### University Malaysia Terengganu

Bachelor of Computer Science with Maritime Informatics (Hons)  
GPA 3.6 / 4.00

October 2020 - January 2024

## WORK EXPERIENCE

### Tapway Sdn. Bhd.

#### Data Labeling and Technical Support Intern

August 2023 - January 2024

- Labeled and annotated over 30,000 data to enhance AI model training efficiency.
- Contributed to improving the labeling guide by creating a comprehensive document that demonstrates a nuanced understanding of data categorization and annotation.

## ACADEMIC PROJECT EXPERIENCE

### Novel PDF Summarizer

- Implemented various NLP techniques including tokenization, stop word removal, lemmatization, and sentiment analysis to enhance summarization accuracy.
- Developed a user interface using Flask to facilitate interaction with the summarization system.

### Harbor Vision GIS

- Leveraged state-of-the-art techniques, including Mask R-CNN and instance segmentation, to achieve precise object segmentation, and classifying boats and pontoons in harbor and coastal imagery.
- Employed GeoPandas for seamless integration of spatial data, enabling efficient geographic information analysis.
- Extracted objects attributes, including positions (X, Y), azimuths, sizes, and lengths.
- Transformed segmented objects into GIS-compatible formats for seamless integration into mapping and navigation systems.

### Cashierless Checkout Store

- Developed and fine-tuned a high-precision product detection and tracking model using YOLOv8 and deepSORT, achieving an impressive accuracy of 97%.
- Designed and developed dedicated mobile apps catering to customers and a website interface tailored for store owners, facilitating seamless access to the deployed model.
- Innovated a human tracking model utilizing YOLOv8 and deepSORT, enabling real-time detection and tracking of customers within the store environment.

### Brain Tumor Detection

- Applied Convolutional Neural Networks (CNN) to train the initial model, achieving substantial accuracy in brain tumor detection.
- Iteratively improved model performance by implementing a second CNN architecture, further refining the accuracy of the brain tumor detection system.
- Implemented advanced Transfer Learning techniques using VGG-16 architecture, resulting in a remarkable accuracy increase up to 98.3%.

### Ship Detection From Remote Sensing Imagery

- Developed and implemented a ship identification system using remote sensing images and image processing techniques by using MATLAB.
- Conducted comparative studies and real-world applications to validate the efficacy of the system in enhancing maritime surveillance.
- Proposed and implemented various image processing methods, including image enhancement and segmentation, to enhance system performance.

### Greenhouse Temperature Control

- Conducted research on optimizing greenhouse temperature control using ANFIS models based on environmental factors.

## SKILLS

**Programming Languages :** Python, Java, JavaScript, PHP, SQL

**Deep Learning Frameworks :** PyTorch, TensorFlow, Keras, scikit-learn

**Data Science Libraries :** OpenCV, Pillow, NumPy, Pandas, Matplotlib, Scikit-Image, dlib, PyPDF2, Gensim, NLTK, SpaCY, MLlib

**Tools :** AWS, Git, LATEX, Linux, Apache Spark, Power BI, Tableau

**Cloud Platforms :** AWS, Microsoft Azure

Transcript, certificates, expected salary, and references are upon request.