AZUREEN NAJA BINTI AMSAN

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SUMMARY

Recent graduate with experience in AI seeking opportunity as data science researcher. Proficient in programming language such as Python, with expertise in machine learning and deep learning algorithms. Participated in multiple projects mostly relying on computer vision tasks such as defect and disease detection. Committed to advancing skills and staying current on trends in data science field and make a meaningful impact on the company's data strategy.

EXPERIENCE

DR CLEAR ALIGNERS – Kuala Lumpur
AI Engineer *Mar 2022 – May 2022*

- Researched and developed AI model for dental related projects such as aligner qualification and oral problem identification
- Connected with potential collaborator in dentistry industry for project collaboration

IMAGINE AI – Johor Bahru
Industrial Training *Dec 2021 – Mar 2022*

- Developed and fine-tuned AI predictive model using deep learning framework for QC manufacturing industry
- Worked with development teams to ensure accurate integration of AI model into firm platforms
- Facilitated in pilot implementation development and proof of concept execution to assess AI model performance
- Documented technical manuals for AI system
- Troubleshoot industrial robot arm

PERANTIS ISKANDAR – Remote
Apprentice *Oct 2021 – Dec 2021*

- Received extensive training on Python programming, computer vision task using OpenCV library and AI development using Tensorflow and Pytorch framework
- Solved coding problems from basic to advance programming including image processing and machine learning task
- Developed and presented projects to trainers and company stakeholders
- Deployed AI model using Flask API

ATOMIC SOLUTIONS – Johor Bahru
Intern *June 2020 – Aug 2020*

- Searched, evaluated, and negotiated with potential suppliers
- Prepared quotation and costing for clients
- Assisted in tender applications
- Involved in preventive maintenance, services, and installations of microscopy devices for industrial and lab

UNIVERSITI TEKNOLOGI MALAYSIA – Johor Bahru
Research Assistant *June 2019 – Aug 2019*

- Managed laboratory equipment and documentation as required
- Fabricated artificial bone implant using polyurethane mixture
- Operated 3D scanning and 3D printing machine
- Publication: Azureen Naja Amsan, Ahmad Kafrawi Nasution, Muhammad Hanif Ramlee, *"A Short Review on the Cost, Design, Materials and Challenges of the Prosthetic Leg Development and Usage",* Conference: Proceedings of the International Conference of CELSciTech 2019- Science and Technology track

EXTRACURRICULAR

BIOMEHS – Johor Bahru
Secretary *Sept 2017 - May 2019*

- Organized meetings, schedule, minute meetings and agendas
- Liaised with program directors to ensure all events run accordingly as per timeline

- Awarded as best high council member in 2018/2019 session

IJNF-UTM CHARITY RUN – Johor Bahru
Head of Registration *Nov 2018*
- Led the registration team to organize the registration process
- Ensured a smooth registration process for over 100+ participants
- Promoted the event via social media and physical promotions

CHARITY GALA NIGHT – Johor Bahru
Vice Director *May 2018*
- Led a team of 20+ students to organize a charity dinner with 107 guests were invited among lecturers, researchers, and students
- Raised >RM1000+ fund channelled to Taman Sinar Harapan

EDUCATION

UNIVERSITI TEKNOLOGI MALAYSIA – Johor Bahru *Aug 2021*
Bachelor of Engineering (Bio-Medical) with Honours – *CGPA: 3.76*

UNIVERSITI TEKNIKAL MALAYSIA MELAKA – Ayer Keroh *Sept 2022 - Present*
Master of Science in Electronic Engineering (specializing in Artificial Intelligence)
Thesis Title: *Anchor Box Optimization using Search Prune Algorithm for Solanaceous Crop Disease Detection*

PROJECT

DRAGON FRUIT DEFECTS DETECTION
- Developed an AI model by applying Yolov5 to detect defects in dragon fruits with 90% accuracy
- Developed an image processing technique to measure sizing of dragon fruit via vision inspection

CALIPER INSPECTION
- Developed an AI model by applying Yolov5 to detect defects in bicycle callipers by integrating it into a robotic-arms

PRE-ASESSMENT ALIGNERS QUALIFICATION
- Developed AI model to detect mouth location from client's image and predict the accuracy of aligners qualification based on teeth conditions using Yolov4 and transfer learning

ANCHOR BOX OPTIMIZATION FOR SOLANACEOUS CROP DISEASE DETECTION (ONGOING)
- Currently working on developing a novel anchor box optimization model by utilizing search prune algorithm to develop a lightweight object detection model
- Utilizing SSDLite with MobileNetV3 backbone as the main architecture model

SKILLS

Programming: Python, SQL, HTML/HTML5, CSS, JavaScript, C
Data Science Tool: BigQuery, MySQL, RapidMiner, Spreadsheet
Deep Learning Framework: Tensorflow, Pytorch, OpenCV
Languages: Malay -*Native,* English -*Professional Working Proficiency*
Certifications & Training: Google Data Analytics Professional Certificate (Coursera)-ongoing, Machine Learning Bootcamp (Udemy), Perantis Iskandar Computer Vision Training, Deep Learning with Pytorch (Coursera), Build Website with HTML and CSS (Coursera)