Ong Yuan Qin

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Objective

An AI engineer with two years of hands-on experience with solid software development background , passionately seeking a challenging role to leverage my expertise in machine learning, natural language processing, computer vision and software development. Eager to contribute to innovative AI projects and join your team to drive AI-driven solutions and deliver significant impact while continuously advancing my skills in the AI and software development fields.

WORK EXPERIENCE

Intel Microelectronics (M) Sdn. Bhd. **(Oct 2022- Present)**

Artificial Intelligence Graduate Trainee

- Collaborating and creating custom AI solutions to client teams from different countries and match their project goals.
- Creating and designing internal Generative AI platforms with seamless API integration to support internal employees using React.js, and familiar with Redux.
- Building mircoservices using C# for smart chatbot platform.
- Conducting research to explore and adopt new AI techniques for ongoing projects, enhancing project outcomes.
- Involving a fully automated ticketing platform FAQ generator with multiple NLP techniques and increased FAQ generation rate per week.
- Creating an engineering keyword mining pipeline with NLP techniques and visualizing the keyword mining results with Power Bi.
- Developing solution that allows Large Language Models to understand complex diagrams including table and flowchart with computer vision techniques.
- Fine-tuning paraphrasing model from Hugging Face, significantly expanding the limited training dataset around 500%.
- Designing and implementing AI benchmarking scenarios, optimizing performance for models developed with various frameworks like OpenVino, PyTorch, and TensorFlow.
- Automating repetitive tasks using Python scripts, streamlining data cleaning processes, and reducing manual workloads by 40%, resulting in a 50% decrease in processing time for data preparation tasks.

Mi Equipment (M) Sdn Bhd - (Mi Technovation) **(May 2022-July 2022)**

Artificial Intelligence Intern

- Evaluating the viability of a singular AI model for diverse device inspections, specifically focusing on sidewall cracking in dies.
- Improving defect detection models based on feedback from global customers to ensure compliance with industry standards and achieving an accuracy rate of more than 98%.
- Conducting model tests and experiments, implementing suitable models on-site servers to validate performance and accuracy.
- Preparing and pre-processing over 20,000 image datasets for model training to ensure accuracy and relevance.
- Creating a Python-based AI defect inspection application, demonstrating to customers from different countries such as Taiwan and US during visits to showcase functionality and potential of the AI defect detection models.
- Installing and testing AI inspection software on vision machines before dispatching to customers, ensuring seamless integration and functionality.
- Automating the statistical analysis process using Python scripts, streamlining and expediting data analysis for informed decision-making, saving up to 40% of the time typically spent on manual analysis tasks.

SKILLS

Programming: Python, React, C++, C#, Java, JavaScript, PHP, SQL, HTML, CSS, Flutter
AI Libraries/Frameworks: Pytorch, TensorFlow, OpenVino, Scikit-learn
NLP Libraries/Frameworks: NLTK, SpaCy, Named-entity recognition
Software **:** Git, Visual Studio Code, Visual Studio, Power BI, Android Studio, Microsoft Office
Language **:** Chinese (Native), English (Fluent), Bahasa Malaysia (Fluent)

EDUCATIONAL BACKGROUND

Multimedia University (MMU) **(July 2019-July 2022)**
Bachelor of Information Technology (Hons)
Major: Artificial Intelligence
CGPA: 3.96

Multimedia University (MMU) **(July 2018-July 2019)**
Foundation in Information Technology
CGPA: 3.77

RESEARCH PROJECTS

Cow Crossing Detection Alert System **(2022)**
Developed a final year project aimed at creating a system utilizing Python, YOLOV3, deep learning, and Raspberry Pi to detect and identify cows with YOLOV3 and recognizing their distinct sounds. The system is designed to send alerts to subscribed devices, including computers and smartphones, upon detecting cows on roadways.

AWARDS & CERTIFICATIONS

- Huawei Certified ICT Associate-AI **(2021)**
- AWS Certified Cloud Practitioner **(2021)**
- Dean's List Award for Undergraduate Study **(2019-2022)**