Nathaniel Sudiono

Bukit Jalil, Kuala Lumpur, Malaysia | +60172028397 | nathaniel.sudionoo@gmail.com |
https://www.linkedin.com/in/nathaniel-sudionoo

PROFILE

Passionate AI major with Strong foundation in computer science. Experienced in developing AI and deep learning for object detection and Data analysis. Skilled in Python, JavaScript, and Vue.js, with a keen interest in advancing AI and machine learning.

WORK EXPERIENCE

Hand Plus Robotics   **Puchong, Malaysia**

Robotics Intern   **June 2023 – Oct 2023**

• Design and develop web-app for integrate AI and Robotics application with HTML, CSS and Vue.js in Visual Studio Code.

• Implement YOLOv5 and OpenCV for object detection model such as detecting Branch Logo and Component tools.

• Utilize SolidWorks to design and visualize 3D models of robotic component.

EDUCATION

Asia Pacific University of Technology & Innovation   **Kuala Lumpur, Malaysia**

Bachelor of Computer Science in Intelligence System   **Sep 2021 - Present**

Final Year Project: "Automated Recognition of General Surgery Instruments Using Deep Learning in Hospital Environments".

PROJECT EXPERIENCE

Image Processing, Computer Vision and Pattern Recognition   **Apr 2024 - June 2024**

• Developed a glove defect detection system using MATLAB with GUI, capable of identifying various defects in gloves.

• Implemented image processing techniques to enhance defect detection accuracy and user interface usability.

Fake News Classification   **Apr 2024 - June 2024**

• Developed a fake news classification model using various algorithms such as Naïve Bayes, Support Vector Machine, and decision tree.

• Conducted comprehensive data pre-processing and feature extraction to improve model performance.

House Rental Prediction   **Jan 2023 - Mar 2023**

• Data exploration, manipulation and visualization of house rent prediction using R programming.

• Create detailed visualizations data and aiding in analysis and interpretation of House rental market.

Image Detection Model (Python)   **Jan 2023 - Mar 2023**

• Designed and developed a model in Python using OpenCV to detect objects in an image and Video.

• Provided the total number of objects in an image, shapes of the objects, size ranking and segmentation.

Library Management System (C#)   **July 2022 - Sep 2022**

• Design and develop object-oriented programming concept for Library management system with database using C#.

• Managed the Library process for book searching, borrowing, returning, and inventory management.

ADDITIONAL INFORMATION

• **Technical Skills:** AI/Deep learning, Python (Programming language), OpenCV (Computer Vision), Java (Programming language), C# (Programming language), MySQL/SQL server, Java (Programming language), R (Programming language), Vue.js (Programming language).

• **Soft Skills:** Communication, Problem-Solving, Critical Thinking, Teamwork, Time Management.

• **Languages:** English (Proficient), Indonesia (Native), Malay (Proficient), Chinese (Beginner).

• **Awards:** APU X AWS DeepRacer Competition, AI Gaming Competition.