

Ryan Adidaru

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EDUCATION

University Of Indonesia

Bachelor of Engineering in Computer Engineering

Jakarta, Indonesia

2026

EXPERIENCE

AI Staff of Autonomous Marine Vehicle, University Of Indonesia

University Of Indonesia

Mar. 2024 – Present

Jakarta, Indonesia

- Developed python scripts and C++ scripts for ROS2
- Developed new workspace in ROS2 (Robot Operating System) package that organizes and calibrates part of the robots to work together
- Developed a custom datasets for YoloV8-small model's (Computer Vision) and trained it with custom made datasets with Roboflow

AI Intern of Autonomous Marine Vehicle, University Of Indonesia

University Of Indonesia

Jan. 2024 – Mar. 2024

Jakarta, Indonesia

- Developed a python script for image processing based on the color of the intended object's, increasing the accuracy of object recognition to 85 percent
- Developed a ROS (Robot Operating System) package that organizes and calibrates part of the robots to work together
- Explored ways to use GitHub collaboration in a team settings
- Developed a custom datasets for YoloV4-tiny model's (Computer Vision) and trained it with that custom dataset which gained accuracy up to 82 percent

Hardware Intern of EXERCISE FTUI, University Of Indonesia

University Of Indonesia

Oct. 2023 – Jan. 2024

Jakarta, Indonesia

- Developed a platform for mushroom cultivation using IOT that produces temperature and humidity data
- Developed a software to maintain the mushroom automatically using linear regression's machine learning model that predicts optimal temperature and humidity for current settings which increases the productivity to 75 percent
- Further development of the software by utilizing AI Assistant-like models using character.ai unofficial api and google text-to-speech

PROJECTS

yolo.cpp | CUDA, C, C++, Neural Networks

Jul. 2024 – Present

- Developed an open-source project for a vision model from scratch ranging from C++ with only using omp.h as an attempt to maximize the CPUs to CUDA for GPU Optimization

amadeus | NLP, Groq, Llama 3.1

Jul. 2024 – Present

- Developed a personal assistant with langchain that can retain memory from previous conversation with the users with combined APIs from Groq for the LLMS and Deepgram for text-to-speech.

Mitsuki | Python, Streamlit, Llama 2.70b, NLP

Jan. 2024 – Feb. 2024

- Trained Llama 2 with custom datasets, to achieve desired personallity for the chatbot and deploy the chatbot with streamlit
- Made and used my custom dataset to train the Llama 2
- Implemented GitHub OAuth to get data from user's repositories

Trained YOLOv4-Tiny | Computer Vision, YOLOv4-tiny, OpenLabelling, Google Colab

Jan. 2024 – Jan. 2024

- Developed a customized YOLOv4-tiny model using my datasets that i created using AyamBawang-dataset which consists of 300 labeled images of indomie

emotionDetector | Computer Vision, Machine Learning, Google Colab

Nov. 2023 – Nov. 2023

- Developed a customized machine learning models that can recognizes human emotions, starting from happiness to fear, results of Independent Research that i conducted

Digital Mouse With Hand Recognition | Computer Vision, Machine Learning, Google Colab

Oct. 2023 – Oct. 2023

- Developed a customized machine learning models that can recognizes Hand gestures that can be converted to digital mouse with certain gestures, pinching for left click, etc. results of Independent Research

WaifuAI | *NLP, Machine Learning, Google Colab*

Oct. 2023 – Oct. 2023

- Utilized CharacterAI unofficial API to build AI Assistant that can act like Hu-Tao from Genshin Impact and can speak with help from text-to-speech from google, results of Independent Research

SEA Countries Education Analysis | *Visualization, Kaggle, Machine Learning, Google Colab* Nov. 2023 – Nov. 2023

- Visualized data of SEA Countries in term of education with custom datasets from Kaggle, results of Independent Research

CERTIFICATES

IBM Certified Applied AI Professional

Google Advanced Data Analytics

Google Foundations of Data Science

Google Get Started With Python

Google Advanced Data Analytics Capstone

Google Go Beyond the Numbers: Translate Data into Insights

Google Regression Analysis: Simplify Complex Data Relationships

Google The Nuts and Bolts of Machine Learning

Google The Power of Statistics

Sololearn Python Intermediate

Udemy Web Developer Bootcamp

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS, SQL, CUDA

Developer Tools: Git, Jupyter Notebooks, Google Colab, VS Code, Visual Studio, Kaggle, Ubuntu 22.04, neovim, vim

Libraries: pandas, NumPy, Matplotlib, OpenCV, ROS, ROS2, YOLO Architecture