

# Ryan Adidaru

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## EDUCATION

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### University Of Indonesia

*Bachelor of Engineering in Computer Engineering*

Jakarta, Indonesia

2026

## EXPERIENCE

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### AI Intern of Autonomous Marine Vehicle, University Of Indonesia

*University Of Indonesia*

Jan. 2024 – Present

*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

### Independent Artificial Intelligence Research

*University Of Indonesia*

Jul 2023 – Present

*Jakarta, Indonesia*

- Explored methods to use ChatGPT's feature of providing machine learning library and applying it to real projects
- Developed a python scripts that utilizes external machine learning libraries that ChatGPT's provided
- Wrote over 1k+ of lines of machine learning experiments with custom external libraries, which produced 3 personal projects for this section

## PROJECTS

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### Mitsuki | *Python, Streamlit, Llama 2.70b, NLP*

Jan. 2024 – Present

- 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

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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

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

**Frameworks:** React, Node.js, Mongoose, Express

**Developer Tools:** Git, Jupyter Notebooks, Google Colab, VS Code, Visual Studio, Kaggle, Arch-linux

**Libraries:** pandas, NumPy, Matplotlib, OpenCV, ROS