

# RIYAN BAYU SAPUTRA

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As a dedicated informatics engineering student with a passion for making real contributions to the advancement of technology, I am always looking to improve my academic and professional journey. I have extensive experience in web development and machine learning, having worked on various full-stack web projects, as well as machine learning and deep learning model development.

## EDUCATION

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### **Politeknik Harapan Bersama – Tegal, Indonesia**

Sep 2021 - Present

*Undergraduate in Informatics Engineering, 3.52/4.00*

- Create many project in the field of web and machine learning.
- Become a member of community service by lecturers, to conduct socialisation and training on technology, social media, and machine learning especially NLP.
- **Relevant Coursework:** Web Development, Database System, Algorithms & Data Structures, Machine Learning.

## EXPERIENCE

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### **Forum Riset Teknologi Informasi – Tegal, Indonesia**

Apr 2023 – Present

*Head of Research Department*

- Manage and implement the research department's work programme, to ensure a structured annual work programme.
- Tasks of the research department is handle and guide in exploring ideas, writing scientific papers, and writing proposals.
- Compile and present findings and recommendations based on rigorous data analysis.

## PROJECT

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### **Printer Selection Website with Decision Support System feature**

*Laravel, Bootstrap, MySQL, SAW Method*

- Implementing the Simple Additive Weight method Decision Support System into Laravel.
- Creating Frontend with bootstrap framework and using blade template from laravel.
- Implement database relationships with models and migrations in Laravel.

### **Aplikasi POS Resto Offline Online Versi Tablet**

*Laravel, flutter, MySQL*

- Create UI/UX Design for Aplikasi mockup.
- Compose ERD so that the database would be organized and easy to maintain.
- Develop front end using flutter, backend using Laravel and MySQL database.

### **Machine Learning for mustard disease detection**

*Tensorflow, Flask*

- Collecting datasets of 5 classes of healthy and diseased mustard greens
- Building an image classification model with 5 classes of healthy and diseased mustard greens using Tensorflow with the Xception transfer learning model.
- Creating a chatbot model with NLP that contains educational information about mustard greens.
- Deploying both models above to Google Cloud Run using the Flask framework.
- Creating sentiment analysis to analyze satisfaction in using the application

### **SafetyCheck Protective equipment Backend**

*Yolo V8, Flask, Flutter, MySQL, MongoDB, Streamlit*

- Build and test a real time Protective equipment classification model using yolov8 .
- Create authentication with JWT using flask framework, and mysql database.
- Visualize Protective equipment classification results using streamlit to gain new insights.

## ACHIEVEMENTS

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## CERTIFICATION & COURSE

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### Certification:

- Fullstack Flutter Laravel study case Resto Pos System
- Membuat Website dengan Wordpress

### Course:

- Dasar-dasar Bahasa Pemrograman Python Flask(Udemy)
- Fullstack Flutter Laravel study case Resto Pos System(Jago flutter)
- Mathematics for Computing(BISA AI Academy)
- Belajar Dasar CSS dalam program Kelas Online CODEPOLITAN
- Belajar Dasar HTML dalam program Kelas Online CODEPOLITAN
- Belajar Bootstrap CSS Framework dalam program Kelas Online CODEPOLITAN
- Belajar JQuery Dasar dalam program Kelas Online CODEPOLITAN

## SKILLS

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**Languages:** Bahasa Indonesia (native), English (passive)

**Language Programming:** PHP, Python, Javascript, Dart, R, Java

**Framework:** Laravel, Flask, Flutter

**Database:** MySQL, MongoDB

**Developer Tools:** Git, Postman, Jira

**Libraries:** Tailwind, Bootstrap, Tensorflow, Scikit-Learn, OpenCV, Ultralytics