FREDY SAPUTRO

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SUMMARY

I am a fifth semester student of Informatics Program at Mercu Buana University Yogyakarta. I have interest and skills in Machine Learning and Data Science. I have taken several online courses and academic projects related to those topics. I also have good abilities in using various tools and programming languages such as Python, R, SQL, TensorFlow, PyTorch, and others. I have analytical, problem-solving, as well as high motivation and commitment to learn and develop myself in Machine Learning and Data Science.

PROJECTS

Sign Language Recognition App
Universitas Mercu Buana Yogyakarta, Faculty of Information Technology, Computer Vision Course (October 2023 - Present)

- Developing an app that can recognize sign language from images or videos
- Using MATLAB and Image Processing and Computer Vision toolbox to create a machine learning model that uses Convolutional Neural Network
- Using a dataset that contains 3,000 hand images that form 10 sign language letters
- Measuring the model performance with accuracy and confusion matrix metrics
- Currently training and testing the model with new data and planning to add text and voice translation features

Hand Gesture Recognition App
Dicoding, Learn Machine Learning for Beginners Course (November 2023)

- Developed an app that can recognize hand gestures that form scissors, rock, or paper from images
- Used TensorFlow and Keras to create a machine learning model that uses Convolutional Neural Network
- Used a dataset that contains 2,188 hand images that are divided into three classes: scissors, rock, and paper
- Measured the model performance with accuracy and loss metrics
- Achieved 97% accuracy on test data and successfully recognized hand gestures from images taken from camera
- Received 5 stars and a graduation certificate from dicoding

WORK & EXPERIENCES

Himpunan Mahasiswa Informatika (HIMAKA) - Universitas Mercu Buana Yogyakarta.
Media Information Division (January 2022 - January 2023)

- Created and managed social media content for the student association, such as Instagram, Facebook, and Twitter.
- Organized monthly Instagram live sessions to engage the audience with interesting and interactive topics.
- Designed attractive posters, flyers, and banners that matched the theme of the ongoing programs.
- Compiled and designed the student association bulletin that contained information and news about the activities of the association and the informatics department.
- Coordinated the media information team in the student association events, such as seminars, workshops, competitions, and social events.

PT SINAR AGUNG PRASADIKINDO - Karanganyar, Jawa Tengah
IT Staff (June 2019 – February 2021)

- Performed troubleshooting or solving feature errors on the web used by the company, using PHP, JavaScript and Laravel framework programming languages.
- Added new features to the company's web, such as input forms, data validation, graphs, and others, using PHP, JavaScript and Laravel framework programming languages.
- Handled user and feature improvement on the OTO desktop program used for company data management, using C# programming language.
- Created a new warehouse application for stock taking that can be used by warehouse staff, using Java and Kotlin programming languages with Android Studio.
- Developed HRMS SAS application for employee attendance that can be used by HRD staff, using Java programming language with Android Studio.

- Mastered various programming languages, such as PHP, JavaScript, C#, Java, and Kotlin, as well as various tools, such as Android Studio, Visual Studio, and PostgreSQL.

EDUCATION

UNIVERSITAS MERCU BUANA YOGYAKARTA - Bantul, DI Yogyakarta
Bachelor of Informatics (in progress) 2021 - 2025 (expected graduation date)

- GPA: 3.87/4.0
- Related courses: Computer Vision, Data Warehouse & Data Mining, Artificial Intelligence
- Scholarship: KIP Kuliah 2021

SMK N 2 KARANGANYAR - Karanganyar, Jawa Tengah
Vocational High School of Software Engineering 2016 - 2019

- Related courses: Web Programming, Desktop Programming
- Scholarship: KIP
- As the vice leader and main programmer, I created an information system or program for the village in the project work subject, demonstrating my skills in creating software projects, working with a team, and communicating with the stakeholders

SKILLS & COMPETENCIES

- **Programming Languages:** Python, R, Matlab, SQL, Java, PHP, and Javascript
- **Software:** TensorFlow, PyTorch, Tableau, Power BI, Microsoft Excel, Matlab
- **Database:** Skilled in Oracle, MySQL and PostgreSQL
- **Methods:** Machine Learning, Data Mining, Statistics, Probability, Deep Learning, Natural Language Processing
- **Certificates:** R Fundamental for Data Science (DQLab), Python Fundamental for Data Science (DQLab), Learn Basic Data Visualization (Dicoding), Start Programming with Python (Dicoding), Learn Machine Learning for Beginners (Dicoding), Learn Basic Data Science (Dicoding), Learn Basic Structured Query Language (Dicoding)
- **Operating Systems:** Familiar with Windows and Linux environments.
- **Foreign Languages**: English (intermediate), Korean (basic)