



PRAYOGO MAKARYA ALEXANDRIA

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A fresh graduate in Agricultural and Biosystems Engineering from IPB University with a GPA of 3.01. I have internship experience as a data scientist, involving data scraping, statistical and machine learning analysis, and data visualization to support research and publication. Skilled in developing machine learning models, including satellite image processing for soil quality mapping and crop yield prediction. Proficient in tools such as Python, TensorFlow, Keras, and GIS software, with certifications as a Google TensorFlow Developer and Machine Learning Specialization. I am highly motivated to continue learning and growing in the fields of technology and data analysis. My goal is to create innovative, data-driven solutions that enhance efficiency and sustainability across various sectors, particularly in agriculture and environmental management.

Education

IPB University - Bogor, Indonesia

Aug 2020 - Jul 2024

Bachelor of Agricultural and Biosystem Engineering, 3.01/4.00

- Lecture assistant of engineering programming for third semester student's
- Research team for Precision Agriculture of Oil Palm (PreciPalm) as machine learning engineer
- Developing and cultivating onion plants in a smart greenhouse
- Involved in the process of preparing the final project of the precision agriculture technology course in the form of an intelligent irrigation system project
- Involved in the process of developing a corn seed dryer machine tool in the capstone project course

Work Experiences

Bangkit Academy by Google, Goto & Traveloka - Remote

Aug 2023 - Jan 2024

Machine learning Intern

- Built a machine learning model to give the crop recommendation system using XGboost and Decision Tree
- Developed machine learning model using ANN and SVR to predict the nutrient of oil palm in plantation
- Developed a predictive model that accurately forecasts customer churn with 90% accuracy using machine learning

Google Developer Students Clubs IPB University - Bogor, ID

Oct 2023 - May 2024

Core Team

- Improved team morale and motivation through positive reinforcement and team-building activities
- Developed and maintained an Agile team culture by facilitating team building activities and promoting an environment of continuous improvement
- Collaborated with a team of developers and enthusiasts to organize workshops, hackathons, and events that promote the adoption of Google technologies among students.

Agricultural and Biosystem Engineering IPB University - Bogor, ID

Aug 2024 - Present

Research Assistant as Machine Learning Engineer

- Contribute to develop machine learning model ANN and SVM for determination micronutrient for oil palm
- Processing Sentinel-2 Imagery into PreciPalm (Precision Agriculture for Oil Palm)
- Created prediction micronutrient distribution map using Quantum GIS

Organizational Experiences

BEM Fateta IPB - Reds Business and Mentoring 2021

May 2021 - Jul 2021

Staff Design Digital and Documentation at Redsbim 2021

- Designed and developed digital promotional materials, including posters, banners, and social media content, to enhance engagement and visibility for REDSBIM 2021
- Documented event activities, including webinars and mentoring sessions, through high-quality photos, videos, and post-event reports for archiving and promotional purposes.

Himpunan Mahasiswa Teknik Pertanian - Gursa League 2022







Jan 2022 - Mar 2022

Staff of Multimedia Divison at Gursa League 2022

Himateta is a professional student organization engaged in the scientific field of agricultural engineering and biosystems.

- Managed social media platforms to enhance event visibility and engagement, resulting in increased participation and audience reach.
- Captured and edited photos and videos of key event moments, ensuring high-quality visual documentation for promotional

Achievements & Skills

- **Google Certified TensorFlow Developer**  (2024): Machine Learning and Deep Learning
- **TensorFlow Developer Specialization**  (2023): Deep Learning
- **Machine Learning Specialization**  (2023): Supervised Learning, Unsupervised Learning, Reinforcement Learning
- **Crash Course on Python**  (2023): Python Programming, Fundamental Programming Concept
- **Belajar Dasar Pemrograman Web**  (2023): HTML, CSS , JS
- **Selected into Top 50 Best Capstone Product - Capstone Project Bangkit Academy**  (2023): Machine Learning Project Capstone