Abdurrahim Ramadhan Idin

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I am a Computer Science student at IPB University who has a strong interest in the fields of machine learning, data science and artificial intelligence. I'm excited to learn and develop skills in applying these concepts in innovative technology solutions and plan a career in data science, data analytics, or machine learning fields.

EDUCATION

IPB University **Aug 2021 – Present**
Computer Science, Faculty Mathematics and Natural Science

- CGPA 3.17 out of 4.00
- Relevant coursework : statistics and data analysis, algorithms and basic programming, programming, linear algebra, quantitative methods, data structures, algorithm analysis, data mining, databases, introduction to computational intelligence, artificial intelligence, digital image processing
- Final Project Research : corn varieties Identification using the convolutional neural network method

WORK EXPERIENCE

MACHINE LEARNING ENGINER INTERN **Sep 2024 – Nov 2024**
Braincore.id

- As an intern data scientist, my main responsibility was to collect and analyze image data for the liveness detection project.
- I developed a pipeline to preprocess and ensure the quality of image data before it was used in model training.
- I created and optimized a model in TensorFlow Lite (TFLite) format to facilitate efficient deployment on mobile devices.
- Additionally, I collaborated with the team to test and evaluate the model's performance in accurately detecting live presence.
- Other responsibilities included conducting experiments to improve model accuracy and documenting the results for further analysis. Project Report Documentation

CAPSTONE MACHINE LEARNING **Feb 2024 – Jun 2024**
Automation Fruit Sorting Using MyCobot 280

- As a Machine Learning Engineer in a collaborative team project, I developed and implemented a Convolutional Neural Network (CNN) for fruit detection, achieving high accuracy in identifying bananas and other fruits using the NVIDIA Jetson Nano.
- I assisted in creating a data preprocessing pipeline to enhance image quality and optimize model training conditions, which led to improved sorting efficiency.
- I Participated in evaluating the performance of the automated sorting system, documenting findings, and identifying areas for future improvements. Project Report Documentation

PROJECTS

- **Ram-AI: LLM-Powered Website Generator**: I created an AI web app that turns text prompts into complete websites. Using Gemini LLM, I developed a tool that automatically generates HTML, CSS, and JavaScript files, making website creation incredibly fast and simple. I have also deployed it online, and it remains accessible to users. More detail
- **Plant Detection CNN:** I built a machine learning model that identifies four plant types (corn, cotton, rice, wheat) with 90% accuracy. By using Python and TensorFlow, I designed a smart agricultural recognition system that can distinguish between different crops. More detail
- **Bee Detection CNN:** : In this project, i build CNN model to classify different bee types with 81% accuracy. I developed this computer vision project to help understand and categorize bee populations more effectively. More detail
- **Tweet Sentiment Analysis:** I analyzed tweets from the 2024 Presidential Election Debate

using a Naive Bayes algorithm. The project allowed me to extract emotional insights with 72% model accuracy, showcasing my data analysis skills. More detail

- **Employee Attrition Classification:** I built a neural network model to classify employee attrition using 32 employee features. Achieved 86% testing accuracy. More detail

More project in my github

SKILLS

- Technical Skills : Building models using machine learning algorithms, experience using Python programming for data analysis, Django Framework for web development, streamlit framework that turns data scripts into web apps, visualization using Tableau, NLP, image data processing and classification.
- Soft Skills: Have the ability in data storytelling, analysis, communication, working with a team