

Putu Gede Pradana Adnyana

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Summary

Results-driven Machine Learning Engineer with 1 year of hands-on experience in developing scalable AI solutions. Proficient in Python, TensorFlow, PyTorch, and system architecture. Proven track record in optimizing models for high performance and efficiency. Passionate about continuous learning and innovation. Open to relocation.

Education

- Udayana University**, S.T in Electrical and Computer Engineering Sept 2020 – Aug 2024
- GPA: 3.97/4.0 ([Transcripts](#) 📄)
 - **Coursework:** Discrete Mathematics, Calculus, Data Structure, Computer Architecture, Software Engineering, Machine Learning, Digital Image Processing, Big Data, OOP, Database, Computer Network, Information Technology Project Management, Computer Security
- Mastering AI: From Foundations to Applications by Ruangguru**, Machine Learning Engineering Mar 2024 – July 2024
- GPA: 90/100 ([Transcripts](#) 📄)
 - **Coursework:** Python, Data Cleaning, Data Visualization, Statistic, Linear algebra and Calculus, Machine Learning, Deep Learning, CNN and Computer Vision, PyTorch, NLP and Transformer, MLOps
- Bangkit by Google, Goto and Traveloka**, Machine Learning Feb 2023 – July 2023
- GPA: 95/100 ([Transcripts](#) 📄)
 - Distinction Graduate, top 10% of over 5,000 participants.
 - **Coursework:** Python, Data analytics, Mathematics for Machine Learning (Linear Algebra, Calculus), Machine Learning, Deep learning with Tensorflow, ML Deployment

Technical Skills

Programming Languages: Advanced: Python; Intermediate: PHP, Javascript, SQL, Bash; Beginner: Java
Data Analysis and Visualization: Pandas, Numpy, Seaborn, Matplotlib, Plotly, Tableau
Machine Learning Modeling: Pytorch, Tensorflow, Scikit-learn, Huggingface Transformer
Large Language Model: Langchain, VertexAI, OpenAI, Azure Machine Learning
API and Web Development Framework: Flask, FastAPI, Django REST API, Laravel, Tailwind CSS, DaisyUI, Bootstrap, HTMX, JQuery
Databases: MySQL, PostgreSQL, SQLite, MongoDB, ChromaDB
Deployment: Docker, Git, CI/CD with GitHub Actions, Streamlit, Gradio
Cloud Service: Azure AI Service, Google Cloud Platform

Experience

- Machine Learning Engineer Intern**, Adamata Indonesia – Tangerang, Indonesia Jan 2025 – present
- Build data and CI/CD pipelines for machine learning models.
 - Continuously track model performance metrics.
 - Explore cutting-edge computer vision models for waste management.
 - Enhance system performance by 30% through redesign.
- Artificial Intelligence Engineer Intern**, Ruang Guru – Jakarta, Indonesia Sept 2024 – Dec 2024
- Led the development of a centralized system integrating AI models such as OpenAI, Gemini, and Anthropic, streamlining access for both product and development teams.
 - Developed REST API endpoints for a Coding Assistant, improving engineering team access.
 - Implemented CI/CD pipelines to automate the deployment process, reducing deployment errors by 25% and enhancing system reliability.
 - Optimized system performance by enhancing architecture, resulting in a 30% increase in efficiency.
 - Collaborated with cross-functional teams to ensure the scalability and reliability of IT solutions in dynamic environments.
- Product Development Intern**, XL Axiata (X-Camp) – Jakarta, Indonesia Aug 2024 – Aug 2024
- Contributed to the integration of RTSP cameras for object detection and optimized multithreaded data processing using CUDA, improving system performance by 40% and enabling real-time analytics.
 - Led data collection and labeling for training datasets for object detection
 - Led research on deploying YOLO models on Jetson Nano for object detection, enhancing speed and accuracy in AI-driven solutions.
 - Configured MQTT protocols and integrated them with ThingsBoard, ensuring seamless data communication and system reliability.

Certification

TensorFlow Developer Certificate [🔗](#), Microsoft Certified: Azure AI Engineer Associate [🔗](#)

Soft Skills

Project Management, Communication, Agile development, Time management, Problem Solving, Data Analytics, Leadership, Continuous learning, Active, Innovative, and Creative

Language Proficiency

Indonesia (Native), English (Proficient, TOEFL ITP Score >500) [[Certificate 🔗](#)]

Projects

Trash Object Detection - AI-Based Waste Audit and Assistant ([Project Presentation 🔗](#))

- Tackled waste management issues in Bandung, addressing landfill sites exceeding 800% capacity, with AI-powered detection and monitoring solutions.
- Developed Catch The Trash, achieving 92% precision using YOLOv8 to classify waste types and provide actionable reuse recommendations.
- Created MamangHijau, an interactive chatbot powered by Qwen-MAX, to educate users on waste handling, regulations, and utilization.
- Designed a real-time dashboard to monitor waste quantities and types, enabling data-driven decisions for government and enterprise users.
- Provided actionable insights, such as identifying 60% organic waste, leading to better infrastructure planning like composting facilities.
- Tools Used: Python, Streamlit, Alibaba Cloud, Ultralytics, OpenCV

Capstone Project Information System ([Project Report 🔗](#))

- Designed an information system by creating database architecture with Entity-Relationship Diagrams (ERD), designing user interfaces using Figma, and conducting requirements analysis with Unified Modeling Language (UML).
- Developed and implemented the system within agile environments, enhancing adaptability and facilitating iterative improvements.
- Conducted comprehensive black-box testing and User Acceptance Testing (UAT), achieving a 93% acceptance rate in functionality.
- Optimized the system for scalability, performance, and user satisfaction through ongoing refinement and enhancement efforts.
- Tools Used: Laravel, PHP, SQL, Javascript, Docker, JQuery, Bootstrap

UmMeals – Maternal and Child Nutrition App ([Project Repository 🔗](#))

- Developed an app supporting nutrition tracking for pregnant women and toddlers, featuring personalized monitoring and early stunting detection to provide better health insights.
- Managed all project phases from ideation and research to design and deployment, resulting in selection as a top 6 finalist out of 15 teams in the Skilvul, Biji-biji Initiative, and Microsoft Innovation Challenge 2024.
- Utilized Python, SQL with ORM using SQLAlchemy, Streamlit, Microsoft Azure AI, and Power BI to enhance app functionalities.
- Achieved recognition for innovative solutions and impactful design in the nutrition tracking domain, contributing to improved health outcomes.
- Tools Used: Python, SQL with ORM using SQLAlchemy, Streamlit, Microsoft Azure AI, and Power BI