Putu Gede Pradana Adnyana

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Summary

Innovative Computer Engineering graduate with over 1 year of experience in AI-powered solutions, scalable software development, and cutting-edge technologies. Familiar with LLMs and extensive research experience during academic and professional projects, with a proven track record in deploying machine learning models, optimizing systems, and enhancing efficiency through cross-functional collaboration. Most recently, contributed as an Artificial Intelligence Engineer Intern at Ruangguru, enabling seamless LLM access for all stakeholders. Willing to work onsite in Yogyakarta and committed to driving innovation and organizational success.

Education

Udayana University, S.T in Electrical and Computer Engineering — Sept 2020 – Aug 2024
- **GPA**: 3.97/4.0 (Transcripts ↗)
- **Best Graduates** of the Faculty of Engineering, Udayana University at the 163rd Graduation
- **Coursework:** Discrete Mathematics, Calculus, Data Structure, Computer Architecture, Software Engineering, Machine Learning, Big Data, OOP, Database, Computer Network, Information Technology Project Management

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 Graduates, 10% of more than 5,000.
- **Coursework:** Python, Data analytics, Mathematics for Machine Learning (Linear Algebra, Calculus), Machine Learning, Deep learning with Tensorflow, ML Deployment

Technical Skills

Language: Python (Advanced), Java (Intermediate), PHP (Intermediate), Javascript (Intermediate), SQL (Intermediate), Bash (Intermediate)

Data Analysis and Visualization: Pandas, Numpy, Seaborn, Matplotlib, Plotly, Tableau

Machine Learning Modeling: Pytorch, Tensorflow, Sklearn, Huggingface Transformer

Large Language Model: Langchain, VertexAI, OpenAI, Anthropic

API and Web Development Framework: Flask, FastAPI, Django REST API, Laravel

Deployment: Docker, Git, Gthub Action, Streamlit, Gradio

Cloud Service: Azure AI Service, Google Cloud Platform

Experience

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 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%.
- 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.
- Showcased expertise in system optimization, driving improvements in reliability to support Ruang Guru's digital transformation initiatives.

Product Development Intern, XL Axiata (X-Camp) – Jakarta, Indonesia Aug 2024 – Aug 2024

- Contributed to the integration of RTSP cameras and optimized multithreaded data processing using CUDA, improving system performance by 40% and enabling real-time analytics.
- 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.
- Improved scalability of monitoring systems through optimized architecture and AI deployment strategies.
- Delivered a 30% improvement in task execution speed, aligning with XL Axiata's goals for digital transformation and operational efficiency.

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, Cross-Functional Collaboration, Data-driven Mindset

Language Proficiency

Indonesia (Native), English (Proficient, TOEFL ITP Score 500++) [Certificate ↗]

Projects

Bank Assurance Product Chatbot (Project Documentation ↗)

- Developed and deployed a chatbot using Retrieval-Augmented Generation (RAG) for efficient information delivery, achieving a 30% reduction in user query resolution time.
- Integrated real-time information retrieval capabilities and applied advanced NLP techniques, resulting in 95% response accuracy and improved query understanding.
- Conducted extensive testing and optimization to ensure high performance and usability, leading to increased user satisfaction.
- Led the design and implementation of chatbot architecture, enhancing user experience with accurate and timely responses.
- Tools Used: Python, Langchain, Streamlit, Chroma Vector DB, Langgraph, Langsmith

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% success rate in functionality and user approval.
- Optimized the system for scalability, performance, and user satisfaction through ongoing refinement and enhancement efforts.
- Tools Used: Laravel, PHP, SQL, Javascript, Docker

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, Power BI