

# Putu Gede Pradana Adnyana

📍 Badung, Bali, Indonesia | ✉ [work.pradanaadn@gmail.com](mailto:work.pradanaadn@gmail.com) | ☎ 0812-3737-4363

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## Summary

Innovative Computer Engineering graduate with over 1 year of experience in AI-powered solutions and scalable software development. Proficient in Python, machine learning, and cloud platforms, with a track record of leading impactful projects, including the Bank Assurance Product Chatbot, which reduced user query resolution time by 30%. Experienced in integrating AI models, real-time analytics, and developing applications for health, technology, and finance sectors, demonstrating strong adaptability and a commitment to digital transformation. Fluent in English, with excellent communication skills, and willing to relocate to contribute to 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, Data Structure, Computer Architecture, Computer Network, Computer Security, Software Engineering, Machine Learning, Big Data, OOP, Database, Mobile Programming, 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, 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, Github 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, increasing system performance by 40% and ensuring real-time analytics for scalable monitoring solutions.
- 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

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

## Soft Skills

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Project Management, Communication, Agile development, Time management, Technical Problem Solving, Data Analytics, Leadership, Continuous learning, Cross-Functional Collaboration

## Language Proficiency

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

## Projects

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### 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