**Muhammad Ramdhan Hidayat**

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**SUMMARY**

Proactive and passionate Junior AI Engineer with over 1 year of hands-on experience developing, fine-tuning, and evaluating Large Language Model applications, including AI chatbots and evaluation dashboards. Proficient in Python, LangChain, and OpenAI API, with a strong foundation in the full LLM lifecycle from data preprocessing and prompt engineering to building production-ready RAG systems. A collaborative problem-solver with a Master's in Data Science, eager to contribute to building scalable and reliable AI-powered solutions at Synapsis.

**TECHNICAL SKILLS**

**Languages:** Python, SQL, R

**AI/ML Frameworks & APIs:** LangChain, OpenAI API, Hugging Face Transformers, CrewAI, PydanticAI, Ollama

**Data & Cloud:** BigQuery, Amazon Sagemaker, AWS

**Web & DevOps:** Next.js, React, TypeScript, Tailwind CSS, Git

**PROJECTS**

**SycoBench - AI Sycophancy Evaluation Dashboard**

* Developed a comprehensive LLM evaluation dashboard from the ground up to quantify and visualize model sycophancy, addressing a key challenge in AI safety and reliability
* Engineered a Python backend to perform model inference, compute custom evaluation metrics, and benchmark multiple LLMs, including prompt engineering for diverse test cases
* Designed and deployed an interactive Next.js dashboard, enabling real-time comparison of model performance and identification of biases through advanced quadrant visualizations
* Curated and preprocessed a diverse dataset to test model alignment across various topics, ensuring robust evaluation

**PdVerse: Intelligent PDF Management and AI Chat Assistant**

* Architected and built an intelligent PDF management and AI chat assistant from scratch, leveraging a hybrid Retrieval-Augmented Generation (RAG) pipeline for accurate, context-aware responses
* Developed a robust Python backend for document parsing, text chunking, and creating vector embeddings using OpenAI API, enabling low-latency semantic search over large document sets
* Implemented a conversational AI agent with persistent memory and contextual understanding, allowing users to chat naturally with their documents
* Engineered a scalable system with both local/offline processing and cloud-based API integration, demonstrating flexibility for different deployment environments

**EXPERIENCE**

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| **Problem Generator/Junior Programmer** | **May 2021 - November 2021** |
| ***Zenius Education*** |  |

* Collaborated within a team to deliver gamified educational content, quickly earning increased responsibility by demonstrating exceptional problem-solving and technical leadership
* Utilized Python to perform large-scale data preprocessing and analysis on thousands of production JSON files, identifying and rectifying critical data integrity issues
* Engineered and implemented data validation and processing pipelines that achieved a 90% reduction in production errors, significantly improving system reliability
* Collaborated in a fast-paced, cross-functional environment to enhance product features and ensure data quality for downstream applications

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| **Data Analyst** | **November 2021 - June 2022** |
| ***Zenius Education*** |  |

* Engineered data pipelines on AWS (BigQuery, SageMaker) to extract, process, and model large datasets, directly fueling collaborative machine learning initiatives
* Conducted in-depth analysis, including A/B testing and hypothesis testing, to evaluate model performance and generate actionable insights, informing key product and business strategies

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| **Education Mentor, Machine Learning & Data Analytics** | **February 2022 - June 2023** |
| ***Kampus Merdeka*** |  |

* Mentored 70+ students across three batches in Data Science, Machine Learning, and Data Analytics, providing guidance on end-to-end data projects
* Evaluated student projects by providing detailed feedback on data collection, processing, modeling, and deployment, fostering practical skill development

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| **Tutor Assistant** | **December 2023 - April 2024** |
| ***Rakamin Academy*** |  |

* Mentored 25 students from diverse backgrounds in Data Science, assessing and providing comprehensive feedback on complete data science projects
* Guided students through the full project lifecycle, from database querying with SQL to data analysis and model building with Python

**EDUCATION**

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| **University of Science Malaysia** | **Malaysia** |
| ***Master of Science in Data Science & Analytics*** | ***2020 - 2024*** |

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| **University of Malaya** | **Malaysia** |
| ***Bachelor of Science in Physics*** | ***2015 - 2019*** |