**Muhammad Ramdhan Hidayat**

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**SUMMARY**

AI Solution Engineer with experience building and deploying scalable backend systems. Proficient in Python, LangChain, and RAG for developing practical AI tools that solve real-world problems. Combines strong software engineering principles with a deep understanding of machine learning to deliver reliable and impactful applications from concept to production.

**TECHNICAL SKILLS**

**Languages:** Python, SQL, Clojure, R

**AI/ML Frameworks:** LangChain, Transformers (Hugging Face), OpenAI API, Scikit-learn

**AI/ML Concepts:** Retrieval-Augmented Generation (RAG), Vector Embeddings, Prompt Engineering, Model Evaluation

**Backend & DevOps:** REST APIs, Docker, Git, GitHub, Google Cloud Platform (GCP)

**Data & Cloud:** Google BigQuery, MongoDB, Tableau, Seaborn, Streamlit

**PROFESSIONAL EXPERIENCE**

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| **Software Developer & Data Analyst** | **May 2021 – June 2022** |
| ***Zenius Education*** |  |

* Engineered and maintained a Python-based system to automatically detect and remediate production data errors across thousands of JSON files, reducing critical errors by 90%
* Designed and maintained data pipelines and processing workflows to support content production operations
* Collaborated with cross-functional teams to design and implement data-driven process improvements for content production workflows
* Extracted and analyzed large-scale user data from Google BigQuery using SQL to inform product decisions and A/B testing strategies

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| **Technical Mentor (Part-Time)** | **2022 – 2024** |
| ***Kampus Merdeka & Rakamin Academy*** |  |

* Mentored over 90 students on data science and machine learning fundamentals, including Python programming, data modeling, and model evaluation techniques
* Conducted code reviews and provided technical guidance on end-to-end data projects, from SQL querying to final model deployment concepts

**AI & ENGINEERING PROJECTS**

**PdVerse: AI-Powered Document Q&A System**

* Developed and deployed a full-stack application for intelligent PDF analysis, featuring a Python backend that serves a Next.js frontend
* Engineered a Retrieval-Augmented Generation (RAG) pipeline using LangChain and sentence transformers for high-accuracy semantic search and Q&A over user-uploaded documents
* Built a REST API to handle document parsing, vector embedding, and real-time query processing with OpenAI API integration
* GitHub: github.com/ramdhanhdy/PdVerse

**SycoBench: LLM Sycophancy Evaluation Dashboard**

* Architected and built a Python-based backend system for large-scale LLM evaluation, performing automated prompt generation and metric computation to test model alignment and sycophancy
* Developed an interactive Next.js dashboard to visualize multi-metric evaluation results, enabling prompt-level filtering and comparative analysis across different models
* Contributed to the design of a novel framework for evaluating AI sycophancy, a key challenge in building reliable AI systems
* GitHub: github.com/ramdhanhdy/SycoBench

**JobHunt-Agent: Multi-Agent Resume Optimization System**

* Developed a Streamlit application using a five-step sequential AI agent system (powered by LLMs) to analyze and optimize resumes against specific job postings
* Implemented ethical grounding safeguards to prevent fabrication of credentials and ensure factual accuracy in generated content
* GitHub: github.com/ramdhanhdy/JobHunt-Agent

**EDUCATION**

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

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| **Bachelor of Science in Physics** | **2015 – 2019** |
| ***University of Malaya*** |  |