**Muhammad Ramdhan Hidayat**

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**PROFESSIONAL SUMMARY**

AI-focused Data Scientist with specialized experience in Large Language Models (LLMs) and conversational AI systems. Proven track record in developing production-ready AI pipelines and mentoring cross-functional teams on ML implementations. Recently built LLM evaluation frameworks (SycoBench) and RAG-powered document management systems (PdVerse) using modern AI frameworks. Passionate about bridging the gap between complex AI technologies and real-world business applications through robust engineering practices.

**TECHNICAL SKILLS**

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

**LLM & NLP Frameworks:** LangChain, Hugging Face Transformers, OpenAI API, CrewAI, PydanticAI

**AI/ML Technologies:** Large Language Models (LLMs), Natural Language Processing, Prompt Engineering, Fine-tuning, RAG Systems, Conversational AI

**Data Engineering:** BigQuery, MongoDB, Amazon SageMaker, Streamlit, Jupyter

**Cloud & Deployment:** Google Cloud Platform, AWS, API Development, Production Systems

**EXPERIENCE**

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| **AI Systems Engineer & Data Scientist** | **May 2021 – June 2022** |
| ***Zenius Education*** | ***Jakarta, Indonesia*** |

* Engineered production AI systems generating educational content at scale using Clojure and Python
* Led AI-driven content generation pipeline serving thousands of learners, advancing to team lead in 2 months
* Developed automated error detection system using machine learning, reducing production errors by 90%
* Collaborated with cross-functional teams (product, engineering, content) to optimize AI system performance
* Performed comprehensive data extraction from Google Cloud via BigQuery and modeling via Amazon SageMaker

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| **AI Engineering Mentor** | **February 2022 – June 2023** |
| ***Kampus Merdeka*** | ***Remote*** |

* Mentored 70+ university students in Machine Learning and AI Engineering practices through 1-on-1 guidance
* Delivered technical training on AI/ML workflows, model deployment, and production system design
* Bridge gap between academic AI theory and industry implementation for emerging AI engineers

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| **Data Science Tutor Assistant** | **December 2023 – April 2024** |
| ***Rakamin Academy*** | ***Remote*** |

* Provided comprehensive Data Science mentoring to 25 students with variety of backgrounds
* Assessed complete data science projects from database querying using SQL to model deployment using Python

**FEATURED LLM PROJECTS**

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| **SycoBench - AI Sycophancy Evaluation Dashboard** | **2024** |

*Objective: Develop comprehensive LLM evaluation framework for measuring sycophancy in Large Language Models*

* Architected comprehensive LLM evaluation framework for measuring sycophancy in Large Language Models
* Built Next.js + TypeScript dashboard with Python backend for automated model performance analysis
* Implemented real-time LLM testing pipeline supporting multiple models and evaluation metrics
* Evaluated multiple fine-tuning approaches and model architectures for bias detection in conversational AI systems
* Developed bias detection algorithms for identifying over-alignment patterns in conversational AI systems

**Tech Stack:** Next.js, TypeScript, Python, Tailwind CSS

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| **PdVerse: Intelligent PDF Management and AI Chat Assistant** | **2024** |

*Objective: Build intelligent PDF management system integrating AI-powered search and conversational interfaces*

* Developed hybrid RAG retrieval system with local/offline capabilities for semantic document search
* Created conversational AI interface enabling natural language interaction with document repositories
* Designed modular chat memory and document persistence system with optional OpenAI API integration
* Implemented end-to-end pipeline from document parsing to intelligent Q&A over PDF content

**Tech Stack:** Next.js, React, Python, OpenAI API, Vector Embeddings

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| **JobHunt-Agent - Multi-Agent Resume Optimization System** | **2024** |

*Objective: Build AI-powered resume optimization system with ethical grounding safeguards*

* Engineered Streamlit application with five sequential AI agents for automated resume analysis
* Implemented ethical grounding protocols preventing credential fabrication while maximizing relevance
* Designed multi-stage evaluation pipeline analyzing job fit across technical skills and experience alignment

**Tech Stack:** Python, Streamlit, AI Agents

**ADDITIONAL PROJECTS**

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| **Customer Segmentation Using RFM Analysis & Unsupervised Machine Learning** | **2023** |

* Implemented unsupervised ML pipeline using UMAP dimensionality reduction and HDBSCAN clustering, achieving DBCV Score of 0.73 and Trustworthiness Score of 0.98 for production customer segmentation
* Designed scalable data processing pipeline for real-time customer analytics and recommendation systems
* Built automated ML pipeline for real-time customer data processing and model inference

**Tech Stack:** Python, R, UMAP, HDBSCAN

**EDUCATION**

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| **Master of Science in Data Science & Analytics** | **2020 – 2024** |
| ***University of Science Malaysia*** | ***Penang, Malaysia*** |

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| **Bachelor of Science in Physics** | **2015 – 2019** |
| ***University of Malaya*** | ***Kuala Lumpur, Malaysia*** |

**CERTIFICATIONS**

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| **BCG X Data Science** | **September 2024** |
| ***Forage*** |  |

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| **Goldman Sachs Excel for Business** | **March 2021** |
| ***Forage*** |  |