

# Rizki Rivai Ginanjar

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Bandung, West Java, Indonesia

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## ABOUT

Passionate **Senior Artificial Intelligence (AI) Engineer** and **Technical Product Manager** with deep expertise in AI, driving innovation from core technologies to user-centric experiences. I excel in identifying opportunities for improvement, proposing optimal solutions, and leading cross-functional teams to implement them. My comprehensive understanding of AI system development—from data preparation to production-ready inference engine development—enables me to effectively leverage AI to solve business problems and implement technical solutions with optimal efficiency and performance.

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## KEY COMPETENCIES

- **Product Management:** User & Market Research, Roadmap Development, Product Lifecycle Management, Scrum, Product Backlog Management, Product Development Supervision, Cross-functional Collaboration
  - **Artificial Intelligence:** Machine Learning, Data Processing, AI Model Development, Speech Signal Processing, Natural Language Processing (NLP), Text-to-Speech (TTS), Large Language Model (LLM), PyTorch, ONNX, Scikit-learn, Tensorboard, Jupyter Notebook, Pandas, DVC, Hugging Face, LangChain
  - **Software Engineering:** Agile Methodologies, RESTful API, Unit Testing, Code Linting & Formatting, Linux, Git, Python, SQL, Gitlab CI, MatLab, PostgreSQL, Docker, Gradio, FastAPI, Google Cloud Platform (GCP)
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## PROFESSIONAL EXPERIENCE

### Prosa.ai

#### Technical Product Manager

📍 Bandung, Indonesia

📅 January 2024 - Present

- Led a cross-functional development team at Prosa TTS, guiding the creation of exclusive TTS models and advanced features for **330,000+ users** in the Indonesian market.
- Conducted user and market research, applying insights to product enhancements that increased **Net Promoter Score (NPS) by 84 points**.
- Created and managed comprehensive short- and long-term roadmaps.
- Leveraged stakeholder insights to prioritize product backlogs, utilizing Scrum methodologies for efficient backlog management.
- Led a cross-functional team of designer and engineers through the software development lifecycle, from planning to maintenance.
- Partnered with marketing to strategize announcements for new features, resulting in a **23% increase in user acquisition** over **eight months**.
- Analyzed product metrics using BI Dashboard (Apache Superset) to identify improvement areas.
- Worked with the support team to address and resolve user complaints.
- Created and organized product documentation, including PRDs, feedback, and reports, which streamlined cross-functional communication.

### Prosa.ai

#### Senior Artificial Intelligence (AI) Engineer

📍 Bandung, Indonesia

📅 July 2021 - Present

- Led a team of AI engineers in TTS and paralinguistics, overseeing AI model planning and technical guidance across development phases.
- Defined the annual research roadmap and set objective key results (OKRs).
- Led the full cycle of TTS voice model development (data gathering, preprocessing, training, evaluation), producing **10 exclusive TTS voice models for Indonesian language**.
- Developed and implemented voice conversion models, expanding our voice offering to meet diverse client preferences and increasing model adaptability.
- Engineered and maintained robust, production-ready AI inference engines.
- Developed internal libraries to streamline TTS inference processes, such as a text cleaner, a model versioning system, and a dataset versioning system.

## **Prosa.ai**

### **Artificial Intelligence (AI) Engineer**

📍 Bandung, Indonesia

📅 May 2020 - June 2021

- Developed high-quality, generative adversarial network (GAN)-Based Text-to-Speech (TTS) voice models for Bahasa Indonesia.
- Explored various TTS model training toolkits to identify the best architecture for developing TTS voice models.
- Optimized TTS voice models for faster inference times and support for lower-end devices.
- Maintained internal libraries associated with the TTS inference process.
- Developed COVID-19 diagnosis system based on cough recordings.
- Developed emotion classification system based on speech signals.

## **Networked System Laboratory**

### **Full-Time Researcher**

📍 Gumi-Si, South Korea

📅 February 2018 - January 2020

- Conducted pioneering research on integrating machine learning into wireless communication systems.
- Proposed novel ideas, designed systems, assessed performance, and documented findings in technical papers.
- Presented research results at domestic and international conferences and submitted a comprehensive version to international journals.

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## **EDUCATION**

### **Kumoh National Institute of Technology (KIT)**

#### ***Graduate School of IT Convergence Engineering (M.Eng)***

GPA: 4.38 / 4.50

Thesis: Low-Complexity and Fast UAV-Based Node Localization utilizing Shallow Neural Network

Awards / Honors: Brain Korea 21 Scholarship Awardee

📍 Gumi-si, South Korea

📅 February 2018 - January 2020

### **Telkom University**

#### ***Department of Telecommunication Engineering (B.Eng)***

GPA: 3.83 / 4.00

Thesis: Optimization Analysis of Audio Watermarking for Reduced Arc M-Ary Phase Shift Keying (MPSK)

Technique using Genetic Algorithm

Awards / Honors: Cum Laude Graduate

📍 Bandung, Indonesia

📅 Agustus 2013 - January 2017

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## **PROJECTS**

- Radio Republik Indonesia (RRI), Custom TTS Voice Model Development (2024)
- Transjakarta, Custom TTS Voice Model Development (2024)
- Trans Semarang & Trans Jogja, AI Bus Announcer System (2023)
- Alterra, Custom TTS Voice Model Development (2023)
- Kalbe Farma, Digital Transformation Program, Data Science Mentor (2022)
- Kampus Merdeka MBSI, AI Engineering Mentorship (2022)
- Elex Media, TTS for Audiobook (2021)
- COVID19 Detection System Development Based On Cough Recordings (2021)
- VoiceBot BRIN, AI Virtual Assistance System Development (2020)

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## **CERTIFICATIONS**

- Fundamental Leadership Program, Dale Carnegie Training, 2022