Rizki Rivai Ginanjar

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Bandung, West Java, Indonesia

ABOUT

Passionate **Senior Artifical 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.

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 Preprocessing, Model Training and Evaluation, Inference Engine Development, Pytorch, ONNX, Scikit-learn, Tensorboard, Jupyter Notebook, Pandas
- **Software Engineering:** Agile Methodologies, RESTful API, Unit Testing, Code Linting & Formatting, Linux, Git, Python, SQL, Gitlab CI, MatLab, PostgreSQL, Docker, FastAPI, Google Cloud Platform (GCP)

PROFESSIONAL EXPERIENCE

Prosa.ai
Technical Product Manager

Bandung, Indonesia
January 2024 - Present

- Led the development team at Prosa TTS, an Indonesian SaaS-based Text-to-Speech (TTS) solution provider, serving over **330,000 users** with exclusive TTS voice models and advanced features.
- Conducted user and market research to drive product enhancements, resulting in an NPS increase to over **84 points**.
- Developed both short-term and long-term product roadmaps.
- Managed product backlogs based on insights from various stakeholders.
- Managed a cross-functional team of product UI/UX designers and software engineers, guiding them through the entire software development lifecycle, from planning to maintenance.
- Collaborated with the marketing team on announcing newly developed features and improvements, increasing the number of new users by **23%** over **8 Months**.
- Gathered data from various sources and analyzed product metrics to identify areas for improvement.
- Worked with the support team to address and resolve user complaints.
- Managed product-related documentation, such as product requirement documents (PRDs), user feedback, and periodic product reports.

Prosa.ai
Senior Artificial Intelligence (AI) Engineer

Bandung, Indonesia
July 2021 - Present

- Led the AI Research & Engineering team focused on Text-to-Speech (TTS) and Paralinguistics.
- Defined the annual research roadmap and set objective key results (OKRs).
- Led the full cycle of TTS voice model's development, from audio and text data gathering, dataset pre-processing, model training, and model evaluation. Up until now, we have successfully developed in total **10 exclusive TTS AI voice models for the Indonesian language**, which have been used by our clients.
- Developed voice conversion models to enhance the variety of our voice offerings.
- Developed and maintained production ready AI inference engines for the TTS models.
- Led the development of internal libraries for the TTS-related inference process, supporting both production and development environments (e.g., Text Cleaner, Model & Dataset Versioning System, TTS Model Training Toolkits, etc.)
- Was invited as a guest lecturer in Bandung Institute of Technology (ITB) to teach speech synthesis.
- Supervised theses for several bachelor's students on topics related to TTS or paralinguistics.

Prosa.ai
Artificial Intelligence (AI) Engineer

Bandung, Indonesia
May 2020 - June 2021

- Developed High-quality, exclusive AI-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 research on integrating machine learning technology 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.

EDUCATION

Kumoh National Institute of Technology (KIT)
Graduate School of IT Convergence Engineering (M.Eng)

Gumi-si, South Korea
February 2018 - January 2020

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

Telkom University
Department of Telecommunication Engineering (B.Eng)

Bandung, Indonesia
Agustus 2013 - January 2017

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

PROJECTS

- **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)

CERTIFICATIONS

- **Fundamental Leadership Program**, Dale Carnegie Training, 2022