YOGI PUTRA PRATAMA

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IEEE Author Profile: https://ieeexplore.ieee.org/author/37087086287

AI Training & RLHF | LLM & Code Evaluation | Data Annotation | Computer Science & NLP | Indonesian & English

PROFESSIONAL SUMMARY

AI Training Specialist, Applied Machine Learning Researcher, and Master's Candidate in Informatics (Institut Teknologi Bandung) with 5+ years of experience in AI model evaluation, human-in-the-loop (HITL) data curation, and end-to-end ML/NLP engineering, backed by 6 peer-reviewed publications on IEEE Xplore. Former Appen AI Training Specialist & Social Media Evaluator (2021–2024) with a proven track record of maintaining high inter-annotator agreement and strict adherence to complex evaluation rubrics. Equipped with deep technical proficiency in Python, NLP, predictive modeling, and software engineering to evaluate complex reasoning, code generation, and bilingual (English/Indonesian) AI outputs.

CORE AI TRAINING & TECHNICAL EXPERTISE

- **LLM Alignment & Evaluation:** RLHF (Reinforcement Learning from Human Feedback), Supervised Fine-Tuning (SFT), Side-by-Side Model Ranking, Chain-of-Thought (CoT) Reasoning Verification, Factuality & Hallucination Auditing, Prompt Crafting
- **Data Annotation & Quality Assurance:** Search Relevance & Ads Evaluation, Social Media Content Moderation & Ranking, Multi-Modal Annotation (Text, Image, OCR, Audio), Linguistic Quality Assurance (LQA), Edge-Case Documentation
- **AI/ML & Software Engineering:** Python, PyTorch, Hugging Face Transformers (XLM-RoBERTa), Scikit-Learn, LightGBM, CatBoost, PaddleOCR, SQL, FastAPI, Next.js/TypeScript, Git
- **Languages:** Indonesian (Native / Bilingual Evaluator) | English (Full Professional Proficiency)

RELEVANT EXPERIENCE

AI Training Specialist, Social Media Evaluator & Data Annotator **Jul 2021 – Mar 2024**

Appen — Remote (Global)

- Evaluated and ranked AI/ML model outputs, search engine results, and social media relevance feeds against complex, evolving client guidelines with consistent accuracy above project quality thresholds.
- Performed structured text classification, entity annotation, sentiment labeling, and linguistic quality verification across English and Indonesian datasets.
- Identified edge cases, model failure patterns, and annotation ambiguities, providing detailed written rationales to improve training dataset consistency.
- Operated independently in a high-discipline remote environment, meeting strict weekly throughput and turnaround SLAs across multiple concurrent AI training projects.

Applied AI & Machine Learning Researcher (Master's Thesis & Research Projects) **2024 – Present**
Institut Teknologi Bandung (ITB) — Bandung, Indonesia

- Develop predictive machine learning pipelines (LightGBM, CatBoost, Logistic Regression) and optimization engines on large-scale operational datasets (100,000+ records), achieving 0.8449 ROC-AUC.
- Design and evaluate AI-driven Digital Twin and Knowledge Graph reasoning architectures (CWE–CAPEC–CVE link prediction), authoring peer-reviewed papers published on IEEE Xplore.
- Conduct rigorous error analysis, systematic literature reviews, feature engineering, and model calibration—translating complex domain logic into structured evaluation metrics.

Digital Services Project Owner & AI/Data Solutions Lead **2019 – Present**
Freelance — Bandung, Indonesia (Remote)

- Lead end-to-end architecture and deployment of an Aspect-Based Sentiment Analysis (ABSA) platform (DIGIRE) utilizing Hugging Face transformer models (XLM-RoBERTa) to classify multi-regional customer feedback.
- Oversee microservice architectures for AI and biometric verification pipelines (OCR, Active Liveness, Face/Palmprint Recognition, and Qdrant vector search).
- Author technical specifications, QA test rubrics, and validation workflows ensuring production AI systems meet strict accuracy and reliability standards.

AI-Assisted Software Developer & Technical Evaluator (Freelance) **Apr 2024 – May 2025**
Ubiz — Bandung, Indonesia (Remote)

- Build full-stack web applications and LLM-integrated automation tools (Python, FastAPI, Next.js, Gemini API), regularly evaluating, debugging, and benchmarking AI-generated code for logic, security, and efficiency.
- Curate structured datasets and automated scraping/OCR workflows for document parsing and analytics applications.

PEER-REVIEWED PUBLICATIONS (IEEE XPLORE)

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1. **Predictive Model for Last-Mile Delivery Failure Detection: A Systematic Literature Review and Comparative Experiment on a National Logistics Operator's Data** — Yogi Putra Pratama, Fadhil Hidayat, Ladzwina Mahardini, Figo Agil Alunjati, Suhono Harso Supangkat. *2026 13th International Conference on ICT for Smart Society (ICISS)*, IEEE, 2026.
2. **Integrating AI and IoT for Efficient Courier Logistics: A Literature Review on Delivery Time Prediction and Geofencing** — Yogi Putra Pratama, Suhono Harso Supangkat, Devi Willieam Anggara. *2025 International Conference on ICT for Smart Society (ICISS)*, IEEE, 2025. (Cited by: 1)
3. **Identification of Symptoms Based on Natural Language Processing (NLP) for Disease Diagnosis Based on International Classification of Diseases and Related Health Problems (ICD-11)** — Fariz Bramasta Putra, Alviansyah Arman Yusuf, Heri Yulianus, Yogi Putra Pratama, et al. *2019 International Electronics Symposium (IES)*, IEEE, 2019. (Cited by: 10)
4. **Designing of a Smart Collar for Dairy Cow Behavior Monitoring with Application Monitoring in Microservices and Internet of Things-Based Systems** — Yogi Putra Pratama, Dwi Kurnia Basuki, Sritrusta Sukaridhoto, Alviansyah Arman Yusuf, Heri Yulianus, Faruq, Fariz Bramasta Putra. *2019 International Electronics Symposium (IES)*, IEEE, 2019. (Cited by: 35)

5. **Health Monitoring and Early Diseases Detection on Dairy Cow Based on Internet of Things and Intelligent System** — Faruq, Iwan Syarif, Ahmad Syauqi Ahsan, M. Udin Harun Al Rasyid, Yogi Putra Pratama. *2019 International Electronics Symposium (IES)*, IEEE, 2019. (Cited by: 17)
6. **ArmChain - A Blockchain Based Sensor Data Communication For the Vehicle as a Mobile Sensor Network** — Alviansyah Arman Yusuf, Dwi Kurnia Basuki, Sritrusta Sukaridhoto, Yogi Putra Pratama, Fariz Bramasta Putra, Heri Yulianus. *2019 International Electronics Symposium (IES)*, IEEE, 2019. (Cited by: 10)

EDUCATION & CERTIFICATIONS

Master of Informatics (S2) — Institut Teknologi Bandung (ITB) Expected Dec 2026

Bachelor of Applied Science in Computer Engineering (D4) — Electronic Engineering 2021
Polytechnic Institute of Surabaya (EEPIS)

ISO/IEC 27001 Information Security Management — Project Leader & Surveillance Lead Certified