

TEGAR SATRIO UTOMO

Data Scientist | AI/LLM Engineer

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SUMMARY

Data scientist with 5+ years of experience building production ML/AI systems — from classical recommendation engines and computer vision pipelines to fine-tuned LLM chatbots (SFT, LoRA, RAG) deployed at enterprise scale.

SKILLS

- **Languages:** Python, SQL
 - **Machine Learning:** Recommendation Systems (SVD/Factorization), Clustering (K-Modes), Computer Vision (YOLO), Scikit-learn, Hyperparameter Tuning
 - **LLM / GenAI:** Fine-tuning (SFT, LoRA/QLoRA), Quantization (AWQ), RAG (Pinecone), Prompt Engineering, vLLM, Unsloth, Transformers, OpenAI/OpenRouter API
 - **Backend & Serving:** Flask, FastAPI, REST APIs
 - **Data Engineering:** AWS (Lambda, DMS, S3), ETL Pipelines, QuickSight, Web Scraping (BeautifulSoup, Selenium)
 - **Automation:** n8n, Webhook Integration (Wassenger), Salesforce Integration, OpenWebUI/SSO
 - **Tools:** Git/GitHub, Jupyter
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WORK EXPERIENCE

Data Scientist — PT Langit Kreasi Solusindo | 2024 – Present

- Fine-tuned a domain-specific LLM chatbot for education counseling (Project Aster) via SFT + LoRA on Llama 3.1 8B (v1) and Qwen3 8B (v2); merged and quantized (AWQ) adapters, deployed to production with vLLM
- Built training pipelines combining HuggingFace datasets and flagship-model distillation (via OpenRouter), including negative/out-of-scope samples for conversation re-routing
- Reduced unauthorized "shadow AI" usage org-wide by deploying OpenWebUI integrated with OpenRouter and SSO, giving employees governed access to leading LLMs
- Automated customer support ticket triage for a partner network-security company using n8n: parses incoming emails for device serial numbers, auto-categorizes tickets by team, integrates with Salesforce, and pushes AI-generated fix recommendations to WhatsApp
- Built a daily automated WhatsApp group summarizer for project managers using n8n and LLM APIs

Data Scientist — PT Aku Pintar | 2019 – 2024

- Built a campus recommendation engine using SVD-based collaborative filtering on user-campus interaction data, served via Flask
- Developed a campus similarity-clustering model (K-Modes) to group institutions by mixed categorical features
- Designed and deployed a YOLO-based computer vision pipeline to automate scoring of offline psychometric tests (RIASEC, DISC, MI, VAK, IQ), served via FastAPI, with auto-generated PDF reports (ReportLab)
- Built and iterated an LLM-powered education counseling chatbot — from a context-injected GPT (davinci-003) wrapper to a RAG architecture with Pinecone vector search and OpenAI embeddings
- Designed end-to-end ETL pipelines on AWS (DMS → Lambda → S3) for daily data replication and transformation, powering BI dashboards in QuickSight
- Performed large-scale web scraping (BeautifulSoup, Selenium) with automated ingestion into a self-hosted MySQL database

Fullstack Developer Intern — PT Pelindo Daya Sejahtera | 2018

- Built an internal helpdesk dashboard (Laravel, Bootstrap) for the IT division to manage cross-department task and ticket requests
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EDUCATION

B.S. in Informatics — Institut Teknologi Sepuluh Nopember (ITS) | 2015 – 2019 | GPA 3.30/4.00 Thesis: Music Emotion Recognition using SVM based on Valence-Arousal quadrant classification (audio feature extraction with Librosa — timbre, MFCC, tempo, tonal features; hyperparameter tuning via GridSearch)

LEADERSHIP / ORGANIZATION

Chief of Representative Council, HMTC-ITS | 2017 – 2018 Oversaw the legislative/oversight function for the student association's accountability sessions

Internal Affairs Staff, HMTC-ITS | 2016 – 2017 Organized internal departmental events