

RENDIKA NURHARTANTO SUHARTO

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PERSONAL PROFILE

Fresh graduate in Data Science (GPA 3.75, Cum Laude) and recognized as the 2nd Outstanding Graduate in Student Achievement Category by Telkom University. Possesses 2+ years of hands-on experience in AI engineering, data analysis, and MLOps, delivering data-driven solutions across public, corporate, and startup environments. Completed 30+ analytics and AI projects, including the NutriHealth AI Dashboard for East Java and an AI-powered parking automation system integrating ArcFace and YOLOv11 (mAP 94.5%). Demonstrated expertise in building end-to-end ML pipelines, deploying models with Docker and MLflow, and implementing observability using Prometheus & Grafana. A multi-awardee (2nd Place Data Science Competition, DBS Foundation Scholar) passionate about transforming complex data into actionable insights that drive business growth and public-sector innovation. Proficient in Python, TensorFlow, SQL, Streamlit, Tableau, and Looker Studio.

EDUCATION

Laskar AI (Lintasarta x Dicoding)

AI Engineering Activities — Grade: (Avg) 95.53/100

February - July 2025

Surabaya, Indonesia

BISA AI Academy (PT BISA ARTIFISIAL INDONESIA)

Data Science Activities — Grade: (Avg) 97,27/100

February - June 2024

Surabaya, Indonesia

Telkom University Surabaya

Bachelor of Data Science — Grade: 3.75/4.00

October 2021 - October 2025

Surabaya, Indonesia

EXPERIENCE

PT United Tractors Tbk

Data Science Intern — National Internship Program Batch 2

Nov 2025 – May 2026

Jakarta, Indonesia

- Worked in a high-performance data environment with daily English stand-up meetings to report progress, discuss deliverables, and coordinate with mentors and engineering teams.
- Developed multiple data science solutions for heavy equipment operations, including demand forecasting, feature importance analysis, and event-driven macroeconomic analysis using CatBoost, LightGBM, and neural networks.
- Built an automated predictive engine to forecast spare-part replacement and maintenance schedules based on equipment runtime (SMR) and component lifetime logic, replacing manual calculation workflows.
- Conducted large-scale data analytics and market intelligence for spare parts by integrating operational datasets and e-commerce scraping data, while refactoring and documenting simulation pipelines for Days of Inventory (DOI) and Availability (AVL).

Coding Camp 2026 powered by DBS Foundation (Dicoding)

Instructor – Data Scientist Track

February - June 2026

Remote

- Selected as a Data Science Instructor for a national tech training program serving 3,000 participants, delivering 120-minute Instructor-Led Training (ILT) sessions for university learners.
- Taught core data science topics including Python fundamentals, supervised and unsupervised learning, data processing, and data analysis projects while facilitating discussions, Q&A, quizzes, and collaboration with facilitators for classes of up to 50 students.

Freelance Data Scientist

Data Scientist, Data Analyst, Machine Learning Engineer

December 2023 - July 2025

Remote

- Analysis of IT Network Disruption Patterns Using the Apriori Algorithm
- NLP for Sentiment Analysis on Starbucks Reviews with Inference Model
- K-Means Clustering for World Alcohol Consumption
- Clustering Analysis of Stunting in Indonesian Toddlers Using Clustering Algorithms

Internship at Kuantia Indonesia

Data Analyst

February – April 2024

Surabaya, Indonesia

- During internship at Kuantia Indonesia as a Data Analyst, I was responsible for analyzing and visualizing client data using Looker Studio in the School Design division, with 3 on-site days per week. Every morning, I joined virtual office meetings to report progress and future plans, as well as share insights through short talks. Additionally, I was required to submit monthly activity reports and was involved in various challenging data-related projects.

PROJECTS

- NutriHealth AI Dashboard (East Java MNCH & Hospital)** | *Streamlit, ETS/SARIMA, GeoPandas, Plotly* **Sep 2025**
- Delivered an interactive public-health dashboard with 18-month forecasts (95% CI), spatial clustering, and indicator drilldowns.
 - Launched JAWIR chatbot (OpenAI + Open Data) to answer health queries in Bahasa; enabled data-informed policy insights.
- Parking Automation: Face & Plate Recognition (Thesis)** | *ArcFace, YOLOv11, EasyOCR, MySQL* **Mar 2025 – Jul 2025**
- Achieved F1=0.89 (face), mAP@50=94.5% (plate), and 80.3% OCR fuzzy accuracy in campus access control.
 - Optimized pipeline to ~8.5s/visitor with real-time logging and identity verification via MySQL.
- Automated Web Scraping for Business & Investment Intelligence** | *Selenium, BS4, Pandas, Regex* **Feb 2025 – Mar 2025**
- Built scalable crawlers for 951+ IDX companies, 500+ job listings (Kalibrr), and hundreds of Glints profiles.
 - Exported clean datasets (CSV/Excel) with sector metadata for downstream analytics and opportunity mapping.
- TFX Pipeline for Suicide Ideation Detection (NLP)** | *TFX, TensorFlow, KerasTuner, TFMA, REST* **Jan 2025**
- Engineered end-to-end MLOps pipeline (ExampleGen → Pusher) on balanced 10k samples; AUC=0.93, Acc=84.6%.
 - Deployed via Docker/TF Serving; added observability (Prometheus/Grafana) with latency/throughput health metrics.
- NextCourses—Recommender System** | *TensorFlow Recommenders, KerasTuner, Pandas* **Apr 2025 – May 2025**
- Built dual Collaborative Filtering + Content-Based engine; tuned latent factors via Bayesian/Grid search for relevance.
 - Shipped deployment-ready models & weights for platform integration; synthetic user interactions to mimic Udemy behaviors.
- WhatsApp Chat Analyzer Dashboard** | *Streamlit, BERT (Indo), NLTK/Sastrawi, Plotly* **Aug 2024**
- Automated pipeline from .txt export → cleaned dataset (regex, timestamps, author mapping, stopwords).
 - Deployed multi-page app with BERT sentiment (Pos/Neu/Neg), activity EDA, emoji/keyword insights, and wordclouds.
- Multi-Class Tweet Classification (Astagatra NLP)** | *CatBoost, IndoBERTweet, DistilBERT* **May 2024 – Jun 2024**
- Engineered end-to-end NLP pipeline with augmentation; best model CatBoost reached Balanced Accuracy 62%.
 - Leaderboard: Top 40/364 nationally, Top 4/22 at Telkom University; validated with K-Fold.

ACHIEVEMENT

- 2nd Outstanding Graduate in Student Achievement Category** **Oct 2025**
Issued by Telkom University Surabaya
- Distinction Graduate, AI Engineering Program at Laskar AI** **August 2025**
Issued by Lintasarta & Dicoding
- Awardee DBS Foundation Coding Camp Machine Learning Expert Level** **October 2024**
Issued by DBS Bank x Dicoding
- 2nd place in Data Science competition at ICONIC-IT** **September 2024**
Issued by HMIF of Universitas Siliwangi
- Awardee DBS Foundation Coding Camp Machine Learning Intermediate Level** **July 2024**
Issued by DBS Bank x Dicoding
- Funding Phase Recipient at Program Kreativitas Mahasiswa 2023** **June 2023**
Issued by Direktorat Pembelajaran dan Kemahasiswaan
- 3rd Place Winner in the Business Plan Competition** **June 2023**
Issued by Work In Tech Bootcamp 2023
- Performance and Organizational Scholarship 2022 and 2023** **Oct 2022, Aug 2023**
Issued by Telkom University Surabaya
- Best Final Project in Data Analytics for Business in GELAR RASA 2022** **November 2022**
Issued by Himpunan Mahasiswa Sains Data UPN Veteran Jawa Timur
- 5rd Place in East Java Data Hackathon 2022** **November 2022**
Issued by JCI4TECH
- 3rd Place in Big Data Analytics in the Gamma Sigma Beta 2022 Competition** **September 2022**
Issued by Himpunan Mahasiswa Profesi Gamma Sigma Beta Institut Pertanian Bogor

TECHNICAL SKILLS

Tools and Technologies: Python (Programming Language), BERT (Language Model), MLflow, Docker, GitHub, Dagshub, MySQL, PostgreSQL, MongoDB, PySpark, Hadoop, Tableau, Google Data Studio, Grafana, Prometheus, Streamlit, Flask, Railway, Figma, and Microsoft Office.

Industry Knowledge: Natural Language Processing (NLP), Time Series Analysis, Sentiment Analysis, Machine Learning, Deep Learning, Computer Vision, Image Classification & Detection, Model API Development and Deployment, Model Conversion, Data Scraping, Exploratory Data Analysis (EDA), Data Visualization, Database Management System (DBMS), Big Data Processing with PySpark and Hadoop, Distributed Computing, Project Management, Teaching and Mentorship, Public Speaking, and Cross-functional Team Collaboration.