

RICHIE GIAN SANTO

+62 81385770691 | richiegiansanto@gmail.com | www.linkedin.com/in/richie-giansanto/ | www.github.com/Gr1cLev

Kota Tangerang, Indonesia

Informatics student at Universitas Multimedia Nusantara focusing on Machine Learning, Deep Learning, NLP, MLOps, and full-stack app/web development. Experienced with Python, Kotlin, JavaScript, SQL, REST APIs, databases, and end-to-end ML pipelines (training, evaluation, experiment tracking, basic CI/CD), and seeking internship opportunities to apply these skills to real-world projects.

Education

Universitas Multimedia Nusantara - Kota Tangerang, Indonesia

Aug 2023 - Present

Undergraduate Student in Informatics, GPA: 3.95/4.00

SMA Strada Santo Thomas Aquino - Kota Tangerang, Indonesia

Jul 2020 - Jun 2023

High School Diploma

Experience

Sentiment Analysis on Online Opinions about the Israel–Palestine Conflict – Machine Learning Project

Sep 2025 - Present

NLP and Modeling Techniques

- Collected and filtered Reddit comments by date window (day 1–10 each month), then cleaned and normalized text (tokenization, slang normalization, stopword removal, stemming) using Python and NLP libraries.
- Applied distant-supervision labeling with TextBlob to assign positive/neutral/negative sentiment and prepared a labeled dataset of $\approx 64,000$ comments for training.
- Trained and compared classical ML models (Logistic Regression, SVM, Naive Bayes, stacking) and deep learning models (BiLSTM with Bag-of-Words vocabulary, BERT, and BiLSTM+BERT stacking ensemble) on 2024 data.
- Achieved strong performance with the BERT model, reaching Accuracy = 98.56% and Macro-F1 = 98.57% on a 64,941-sample test set, then used the best model for 2025 inference and monthly sentiment time-series analysis.
- Project available on GitHub: <https://github.com/Gr1cLev/Israel-Palestine-Sentiment-Analysis>

NewsApp – Android Studio

Sep 2025 - Present

Fullstack Developer

- Built a Kotlin-based news application in Android Studio as part of a university project, packaged as a full Gradle Android app.
- Integrated a remote news API, handled HTTP requests and JSON parsing, and rendered articles in list and detail screens with a responsive layout.
- Applied core Android fundamentals such as activity/fragment lifecycle handling, intent-based navigation, and state management for loading/error views.
- Project available on GitHub: <https://github.com/Gr1cLev/NewsApp>

NewsApp: News Recommendation System – Machine Learning Project

Sep 2025 - Nov 2025

Machine Learning Engineer

- Designed an end-to-end ML pipeline for topic classification and headline recommendation, with clear separation into ETL, feature engineering, model training, and serving modules.
- Implemented robust ETL from NewsAPI (multi-category, multi-language headlines) via `etl/fetch_newsapi.py`, followed by semi-supervised labeling and dataset construction in `features/build_dataset.py`.
- Trained a TF-IDF + Logistic Regression classifier using scikit-learn, storing artifacts and evaluation metrics under `models/artifacts/` for reproducible experiments.
- Exposed the model through a FastAPI service (`app/main.py`) with typed Pydantic schemas and two main endpoints: `/classify` for batch headline classification and `/recommend` for preference-based news recommendations; automated the whole pipeline with a single `end_to_end.py` orchestration script and basic tests using pytest.
- Project Available on GitHub: <https://github.com/Gr1cLev/NewsApp-ML-RecommendationSystem-API>

USA Work Visa Prediction – MLOps & Logistic Regression

Oct 2025 - Nov 2025

Data & MLOps Engineer

- Built an end-to-end MLOps workflow that predicts whether a U.S. work visa Labor Condition Application (LCA) will be certified or denied using logistic regression on public LCA disclosure data. [GitHub](#)
- Implemented data ingestion from `data.gov`, schema validation with Pandera, feature building, model training, and evaluation, all tracked with MLflow and documented via JSON and HTML reports (including an Evidently data-drift report). [GitHub](#)
- Developed a FastAPI prediction service and a dropdown-based static web UI (`docs/ui`) and deployed them via Docker and Hugging Face Spaces, with a separate GitHub Pages front-end pointing to the live API. [GitHub](#)
- Automated retraining and deployment using GitHub Actions workflows (`ci.yml`, `pages.yml`, `retrain_and_deploy.yml`) that run the pipeline end-to-end and gate deployment on a positive-class $F1 \geq 0.70$, demonstrating practical CI/CD for ML systems.
- Project available on GitHub: <https://github.com/Gr1cLev/usa-work-visa-prediction-MLFlow-logistic-regression>

Organization

Orientasi Mahasiswa Baru	Dec 2023 - Sep 2024
<i>Person in Charge (Mentor)</i>	
Official orientation and mentoring program for new UMN students, introducing academic culture, campus life, and student services.	
<ul style="list-style-type: none">• Guided 40 first-year students through orientation, introducing campus life, academic culture, and study habits.• Prepared short learning materials and facilitated small-group discussions.• Scheduled regular check-ins, monitored attendance and progress, and ensured all mentees completed the program.	

KSPM UMN - Investment 101	Oct 2023 - Mar 2024
<i>PIC of Competition Division</i>	
Student organization that promotes capital market education, investment literacy, and competition activities for Universitas Multimedia Nusantara students.	
<ul style="list-style-type: none">• Led the competition division for the “Investment 101” event organized by KSPM UMN.• Planned, organized, and managed competition activities to ensure smooth and fair execution.• Acted as the main liaison for participants, explaining the event structure and technical features of the competition.• Collaborated with other committees to coordinate logistics and schedules, strengthening leadership, time management, and teamwork skills.	

UMN Tech Festival	Aug 2023 - Mar 2024
<i>Logistics Assistant</i>	
Campus technology event showcasing student projects, tech communities, and industry partners through exhibitions and competitions.	
<ul style="list-style-type: none">• Handled logistics and accommodation for the UMN Tech Festival (booths, furniture, power, signage).• Designed and updated the exhibition floor map to optimize booth allocation and visitor flow.• Coordinated with other crew members and supported security to keep the venue organized and running smoothly.	

Skills

<ul style="list-style-type: none">• Programming Languages: Python, Kotlin, JavaScript, Java, C#, SQL, C++• Web & App Development: Node.js (Express), FastAPI, Android Studio (Kotlin), basic React, RESTful API development• Machine Learning, Deep Learning & NLP: scikit-learn, PyTorch, BERT-based models, Logistic Regression, SVM, Naive Bayes, BiLSTM, stacking ensembles, model evaluation (accuracy, F1-score)• MLOps & Data Engineering: MLflow, GitHub Actions CI/CD, Docker, ETL/data pipelines, model serving & basic monitoring• Data Analysis & NLP Processing: pandas, NumPy, text preprocessing (tokenization, normalization, stopword removal, stemming), TF-IDF / n-grams, sentiment analysis• Tools & Soft Skills: Git & GitHub, Google Colab, Kaggle, Jupyter Notebook, VS Code; problem solving, analytical thinking, teamwork, cross-functional team, communication, Initiative, fast learning, adaptability, creativity	
---	--

Certification

• AI Productivity and AI API Integration for Developers – Hacktiv8 Indonesia (Maju Bareng AI)	Oct 2025
• AI Made Simple: Learn, Apply, and Use Responsibly – Bitslab Academy	Sep 2025
• Prompt Engineering – Sololearn	Sep 2025
• Python Intermediate – Sololearn	Apr 2025

Language

- Indonesian – Native
- English – Fluent