

RICHIE GIANSANTO

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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
Undergraduate Student in Informatics, GPA: 3.95/4.00

Aug 2023 - Present

SMA Strada Santo Thomas Aquino - Kota Tangerang, Indonesia
High School Diploma

Jul 2020 - Jun 2023

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 ≈ 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 ≥ 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

Person in Charge (Mentor)

Official orientation and mentoring program for new UMN students, introducing academic culture, campus life, and student services.

- 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

PIC of Competition Division

Student organization that promotes capital market education, investment literacy, and competition activities for Universitas Multimedia Nusantara students.

- 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

Logistics Assistant

Campus technology event showcasing student projects, tech communities, and industry partners through exhibitions and competitions.

- 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

- **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)
- AI Made Simple: Learn, Apply, and Use Responsibly – Bitslab Academy
- Prompt Engineering – Sololearn
- Python Intermediate – Sololearn

Oct 2025

Sep 2025

Sep 2025

Apr 2025

Language

- Indonesian – Native
- English – Fluent