

Fehru Mandala Putra

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PROJECTS

- **Transformer-based Machine Translation:** Re-implemented the **Transformer architecture** as described in “**Attention is All You Need**” and trained on the **Opus-100** dataset with 1 million sentence pairs using **PyTorch**, setting up **distributed training** across multiple GPUs for efficiency.
- **Image to Text Election Form:** Image-to-text model for **extracting numerical results** from election forms collected from various polling stations (TPS).
- **Cyberbullying Detection:** Developed a machine learning model to detect cyberbullying, employing **end-to-end machine learning practices** including distributed computing, data versioning, model versioning, and distributed dataset on the **Google Cloud Platform**. Deployed as a REST API using **FastAPI**.
- **Fake News Detection:** Employed Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN), **incorporating three types of embeddings** (token, character, and feature), for automatic detection of fake news.
- **Weather Forecasting:** Developed a machine learning model to **provide accurate weather predictions** to support planning and scheduling for the relocation project of the capital city of Indonesia from Jakarta to East Kalimantan.

EDUCATION

- **Institute Technology of Sepuluh Nopember** Surabaya, Indonesia
Undergraduate of Science in Mathematics; GPA: 3.33 *Aug. 2022 – Aug. 2026*
- **Giri High School** Banyuwangi, Indonesia
Acceleration Student at Science Specialization; Score: 90 *July. 2020 – July. 2022*

ACHIEVEMENT

- **Data Quest Airnology 2.0** FTMM, Airlangga University
Finalist *Sep 2023*
 - **Preliminary:** Developed a machine learning model to provide accurate weather predictions
 - **Final:** Live coding session to developed automatic drugs logo labeling based on its package
- **Gammafest Data Science Competition** Institute Agricultural of Bogor
Finalist *Oct 2024*
 - **Preliminary:** Developed a model to extract percentage of polling for every candidates in the form
 - **Final:** Present the strategy to tackle the problem and using explainable ai method to give a view how model generalizes
- **Brawijaya Startup Action** FIA, Brawijaya University
Finalist *April 2023*
 - **Preliminary:** Create prototype of business model. The business model is CRM platform that integrates with AI Agent to help and assist every workflow in workplace
 - **Final:** Create pitch desk and present them to investors and judges

PROGRAMMING SKILLS

- **Languages:** Python, Tensorflow, Pytorch, PostgreSQL, Java, Kotlin **Technologies:** AWS, GCP