

# TIVEN SANDRO

ENGINEER - DATA SCIENTIST

## CONTACT

- +62 812 8184 8949
- tivensandro@gmail.com
- DKI Jakarta, Indonesia
- www.linkedin.com/in/tiven-sandro-448438286

## TECH STACK

- Programming:**  
Python, SQL (MySQL, PostgreSQL), R
- Data & ML Tools:**  
Scikit-learn, TensorFlow, Pandas, RStudio
- Cloud & Pipeline:**  
Google Cloud Platform, Airflow
- Analytics & Visualisation:**  
Tableau, Excel
- General:**  
Git, MS Office

## LANGUAGES

- Indonesian (Native)
- English (Fluent) - IELTS 7.0

## CERTIFICATIONS

### Google Cloud Skill Boost - 2025

- Building Batch Data Pipelines on Google Cloud
- Modernizing Data Lakes and Data Warehouses

### SAKI 21: Patent for Integrated Tsunami Early Warning Siren System (ITSS) - 2022

- Building autonomous, remote-controlled solution designed for maximum reliability during disasters

## AWARDS

- Best Civil Servant Achievement** - G20 Events
- Best Civil Servant Achievement** - Sunda Strait Mission



## PROFILE

Engineer at BMKG with 4 years' experience maintaining and repairing meteorological and geophysical instruments across 50+ sites in Indonesia. Skilled in weather radars, air monitoring, and seismic devices for climate and disaster monitoring. Combining field expertise with strong analytical skills, I hold a Master of Data Science from the University of Sydney.



## WORK EXPERIENCE

### Indonesian Agency for Meteorology, Climatology and Geophysics (BMKG) 2020 - PRESENT

#### Engineer

- Maintain, calibrate, and repair meteorological equipment across BMKG stations, ensuring accurate data streams for national forecasting and research platforms.
- Conduct regular inspections and fieldwork throughout Indonesia to support national weather monitoring and forecasting systems.
- Earned multiple Outstanding Civil Servant awards in recognition of exceptional dedication and performance in technical field operations.



## EDUCATION

### Master of Data Science 2024 - 2025

School of Computer Science | University of Sydney  
GPA: 4.00 / 4.00

### Bachelor of Applied Science in Instrumentation 2015 - 2019

State College of Meteorology, Climatology, and Geophysics (STMKG)  
GPA : 3.63 / 4.00



## PROJECTS & RESEARCH

- Advanced Battery Modelling and Predictive Analytics**  
**Github Project | Capstone Project**  
Developed a machine learning pipeline to predict battery State of Health.
- Unified Analytics Pipeline**  
**Github Project | Data Engineering Project**  
Designed an end-to-end data analytics pipeline for processing, transforming, and visualising large-scale datasets.
- Deep Learning Approach for Quality Assurance of Water Temperature Sensor**  
**IEEE | COMNETSAT 2023**  
Deep learning model for detecting anomalies in water temperature sensor.