

# TIVEN SANDRO

ENGINEER - DATA SCIENTIST

## CONTACT

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## 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.