# CERTIFICATE

0602/DAC/SCC/HIMASTA-ITS/VIII/2025

## Presented to

# Rifaldo Tegar Eka Saputra

## As the Participant

in Data Analytics Course 2025 SCC HIMASTA-ITS
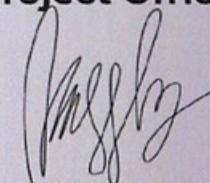on 19th-20th and 27th July 2025

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participants will learn how to process and explore data using Google Sheets, perform web scraping and build visualizations using Python in Google Colab, and create interactive dashboards using Dash. By the end of the training, participants will be able to transform raw data into meaningful insights that support effective decision-making.

The lesson have been taught:

1. **Data Processing and Basic Visualization with Google Sheets :** Understand how to organize, clean, and visualize data using Google Sheets as a foundational step before building more advanced dashboards.
2. **Building Interactive Dashboards with Python and Dash in Google Colab :** Learn to create dynamic dashboards with Python using libraries like Plotly and Dash, all within Google Colab—no local installation needed.
3. **Web Scraping to Extract Real-World Data :** Gain hands-on experience using Python libraries like BeautifulSoup and Selenium in Google Colab to collect data directly from websites for analysis.
4. **Designing Effective Visuals for Decision-Making :** Explore key principles of data storytelling and visualization that help communicate insights clearly and influence strategic decisions.