



Machine Learning with Python Bootcamp

CERTIFICATE

Final Project Completion

Presented to:

Yani Prabowo

This certificate is awarded for the successful completion of a final project in the Machine Learning with Python bootcamp. The project involved analyzing financial transaction data, including data cleaning, feature engineering, and transforming time-based attributes. Anomaly detection was performed using Isolation Forest, while Random Forest Regression was applied to predict expenses. Additional models such as Linear Regression and Decision Tree were evaluated. Tools and technologies used include Python, Pandas, NumPy, Scikit-learn, and Matplotlib for data processing, modeling, and visualization. Achievement: Good

Makassar, April 14th 2026

Nusacodes

Irfandy Thalib

A stylized black ink signature of Irfandy Thalib.



Certificate Number: RL1404RS26EY

Issued Date: 14 Apr 2026

<https://nusacodes.com/verify/RL1404RS26EY>



CERTIFICATE

of Participation

Presented to:

Yani Prabowo

For participated at

Machine Learning with Python Bootcamp

Period of February 2026

Bootcamp Syllabus

MACHINE LEARNING
INTRODUCTION

PROGRAMMING WITH
PYTHON

DATA PREPARATION
WITH PYTHON

MACHINE LEARNING
PIPELINE & EVALUATION

SUPERVISED LEARNING:
CLASSIFICATION

SUPERVISED LEARNING:
REGRESSION

UNSUPERVISED
LEARNING: CLUSTERING

MODEL IMPROVEMENT &
ML BEST PRACTICE

Makassar, April 14th 2026

Nusacodes
Irfandy Thalib



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