

# SERTIFIKAT PELATIHAN

1985590840-1381/PROA/BLSDM.Kominfo/2023

Diberikan kepada

**M.SAIFUL MUKHAROM**

telah menyelesaikan pelatihan

**Python**

pada Program **Professional Academy**  
Digital Talent Scholarship **2023**

Pada tanggal **3 Maret 2023 - 14 April 2023** selama **72** Jam Pelatihan

Jakarta, 10 Mei 2023



Ditandatangani secara elektronik oleh:  
Kepala Badan Litbang & SDM



Hary Budiarto

**Professional Academy Digital Talent Scholarship 2023**  
**Pelatihan Python**  
**Sejumlah 72 Jam Pelatihan**

| <b>Materi</b>   | <b>Jumlah JP</b> |
|---|------------------|
| Perkenalan ke Instruktur, Platform, Modul, Silabus, dan Motivasi untuk Sertifikasi                      | 5                |
| Computational Thinking Concept, komunikasi komputer, Flowchart  | 5                |
| Introduction to Python  | 5                |
| Data Types, Variables, Basic Input-Output Operations, Basic Operators                                   | 5                |
| Boolean Values, Conditional Execution, Loops, Lists and List Processing, Logical and Bitwise Operations | 5                |
| Functions, Tuples, Dictionaries, and Data Processing  | 5                |
| Modules, Packages, PIP  | 5                |
| Exceptions, Strings, and List Methods   | 5                |
| The Object-oriented Programming   | 5                |
| Miscellaneous   | 5                |

| Materi  | Jumlah JP |
|---|-----------|
| Pengenalan Big Data ( Big Data Intro)           | 5         |
| Pengenalan Library pandas, numpy, visualization | 5         |
| Part 1 Summary Test                             | 4         |
| Part 2 Summary Test                             | 4         |
| Final Project Presentation                      | 4         |

