SERTIFIKAT

No. 021.1/HPC/UG/VII/2023

diberikan kepada

Medi Taruk

sebagai

Peserta

WORKSHOP FUNDAMENTAL OF DATA SCIENCE
USING HIGH PERFORMANCE COMPUTING (NVIDIA DGX)

Peserta Workshop: Dosen Universitas Mulia Balikpapan
Pelaksanaan pada tanggal: 03 - 22 Juli 2023

Jakarta, 22 Juli 2023

Prof. Dr. E. S. Margianti, SE., MM.
Rektor Universitas Gunadarma

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Medi Taruk telah mengikuti workshop dengan materi sebagai berikut:

NO.	COURSE SUBJECT	DETAIL MATERIAL	SYNCHRONOUS	ASYNCHRONOUS
1	Introduction to AI Tools and Basic Python (using Nvidia DGX)	Installing Python with Anaconda, Running Python using Jupyter Notebook, Python Statement Writing Rules, Python Keywords, About Variables, Data Type and Operator	4 Hours	2 Hours
2	Basic Python (using Nvidia DGX)	Sequence Structure or Sequential, Condition and Looping Structure	2 Hours	2 Hours
3	Basic Python (using Nvidia DGX)	About Function, Defining Function, Calling Function and Recursive Function	2 Hours	2 Hours
4	Python for AI (using Nvidia DGX)	About Matrix, Create a Matrix, Matrix Element, Matrix Operation, NumPy Library	2 Hours	2 Hours
5	Python for AI (using Nvidia DGX)	About the Scope of a Variable, Objects and Classes, Working with Data in Python and Pandas Library	2 Hours	2 Hours
6	AI using HPC (Nvidia DGX)	Supercomputer with AI, Matrix with GPU and CPU, Example of Graph, Data Preparation, Basic Statistical Operation, Visualization of Data Preparation, and Visualization Library.	2 Hours	2 Hours
7	AI using HPC (Nvidia DGX)	Examples of Data Science Cases with Regression Algorithms (Linier and non-Linier), Program Implementation in Python, and Evaluation visualization.	2 Hours	2 Hours
8	AI using HPC (Nvidia DGX)	Examples of Data Science Cases with Classification, Program Implementation in Python, and Evaluation visualization	2 Hours	2 Hours
9	AI using HPC (Nvidia DGX)	Examples of Data Science Cases with Clastering, Program Implementation in Python, and Evaluation Visualization	2 Hours	2 Hours
		Total Hours	**38 Hours**	