

Online Training
on Artificial Intelligence 101
 (with Self Mastery and Employment Sprint Course)

Course Description:

This course applies the Artificial Intelligence basic concepts, principles, and practices for reinforcement learning to any environment, specifically thru the use of Jupyter Notebook with emphasis of Python as Programming Language.

Requirements:

- Anaconda Jupyter Notebook
- Basic Math
- Basic Python knowledge
- With stable internet connection and laptop/desktop

Training Calendar

Training Schedule	
No. of Training Days	15
Training Dates and Time	November 29 - December 17, 2021 (via Zoom)



Day	Date	Modules / Topics	Time	Trainer
1	Monday, November 29, 2021	Orientation Course Set-Up and Installation Procedures <ul style="list-style-type: none"> Anaconda and Jupyter Notebook Install and Setup Note on environment Setup Walkthrough Skills to Succeed Activity	9:00 AM – 12:00 PM	Jefferson Costales Bayan Academy
2	Tuesday, November 30, 2021	Numpy Basics Overview <ul style="list-style-type: none"> Introduction to Numpy Section Numpy Arrays Numpy Operations Numpy Exercises 	9:00 AM – 12:00 PM	Jefferson Costales
3	Wednesday, December 1, 2021	Matplotlib and Visualization Overview <ul style="list-style-type: none"> Introduction to Matplotlib Matplotlib Basics Understanding the Figure Object 	9:00 AM – 12:00 PM	Jefferson Costales
4	Thursday, December 2, 2021	Matplotlib and Visualization Overview <ul style="list-style-type: none"> Matplotlib-Implementing Figures and Axes Matplotlib Styling-Legends 	9:00 AM – 12:00 PM	Jefferson Costales

		<ul style="list-style-type: none"> • Matplot Styling-Colors and Styles • Matplotlib Exercises 		
5	Friday, December 3, 2021	Machine Learning, Deep Learning, and Reinforcement Learning <ul style="list-style-type: none"> • Basic concepts of Machine Learning, Deep Learning, and AI • Supervised Machine Learning Process 	9:00 AM – 12:00 PM	Jefferson Costales
6	Monday, December 6, 2021	Pandas and Scikit-Learn <ul style="list-style-type: none"> • Overview of Pandas and Scikit-Learn • Pandas-Series • Pandas-DataFrames 	9:00 AM – 12:00 PM	Jefferson Costales
7	Tuesday, December 7, 2021	Pandas and Scikit-Learn <ul style="list-style-type: none"> • Scikit-Learn using Train-Test-Split • Scikit-Learn using Metrics 	9:00 AM – 12:00 PM	Jefferson Costales
8	Wednesday, December 8, 2021	Basic Concept of Artificial Neural Networks <ul style="list-style-type: none"> • Intro. To ANN • Perception Model Neural Networks 	9:00 AM – 12:00 PM	Jefferson Costales
9	Thursday, December 9, 2021	Basic Concept of Artificial Neural Networks <ul style="list-style-type: none"> • Activation Functions • Multi-Class Classification Considerations • Cost Functions and Gradient Considerations • Backpropagation 	9:00 AM – 12:00 PM	Jefferson Costales
10	Friday, December 10, 2021	TensorFlow Basics <ul style="list-style-type: none"> • TensorFlow vs. Keras • Keras Syntax – Preparing the Data • Keras Syntax – Creating and Training the Model • Keras Syntax – Model Evaluation 	9:00 AM – 12:00 PM	Jefferson Costales
11	Monday, December 13, 2021	Virtual Case Study Presentation (Batch 1)	9:00 AM – 12:00 PM	Jefferson Costales
12	Tuesday, December 14, 2021	Virtual Case Study Presentation (Batch 2)	9:00 AM – 12:00 PM	Jefferson Costales
13	Wednesday, December 15, 2021	Self Mastery Session	9:00 AM – 12:00 PM	Bayan Academy
14	Thursday, December 16, 2021	Job Employment Sprint Session	9:00 AM – 12:00 PM	Bayan Academy
15	Friday, December 17, 2021	Financial Education	9:00 AM – 12:00 PM	Bayan Academy

Prepared by	Approved by
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For concerns and questions, please contact:

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 <p>OPLAN Trabaho One Plan for Labor Alignment and Networking</p> 	<p>This training is part of Bayan Academy's One Plan for Labor Alignment and Networking or OPLAN Trabaho campaign created to address the needs of unemployed and outplaced workers brought about by Covid-19.</p>
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