

ARTIN FUTURE PROJECT EXERCISE HANDOUT FOR UNIT 1.2

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INTRODUCTION

On the following pages, learning facilitators will find the information about exercise for the Module 1, Unit 1.2. The document also contains a sample of the handout that the learning facilitators can give to the learners (c.f. following page).

The exercise suggested below should be an opportunity for learners to create a sound and detailed knowledge about AI.

Even though artificial intelligence is a broad concept, there are several key components that accompany and define it. Algorithm, machine learning, deep learning, or neural networks are some of the terms that can tell us more about what makes AI and what kind of processes are behind the AI technology we use on a daily basis.

The assignment for the learners would be to research and create a glossary of important AI terms. Estimated time for task completion: 1 hour.

After an hour, the learning facilitator should invite the learners to discuss their findings and definitions in a class discussion. Estimated time for class discussion: 30 minutes.

The glossary should contain extensive definitions these words:

Algorithm – a set of rules, logical operations or instructions that machines follow to complete a certain task.

Machine learning – type of AI focusing on the use of data and algorithms that allow machines to learn without the help of humans.

Deep learning – a type of machine learning that allows the machines to find the smallest patterns.

Supervised learning – a type of machine and deep learning where structured datasets with inputs and labels are used to train and develop an algorithm.

Unsupervised learning – a form of training where machines do not use datasets with inputs or labels to train and develop an algorithm

Reinforcement learning – the most complex level of learning; it trains and develops an algorithm that learns by trial and error to achieve a certain goal.

Neural network – a set of algorithms that are designed to recognise patterns. They are modeled after the human brain; these algorithms should have the same role neurons have in human brain – send and receive signals, and respond to a piece of information.

On the page below, the learning facilitators will find a sample handout that they could give the learners to do for homework.

INTRODUCTION

Artificial intelligence is a broad concept. However there are several key terms that can help you better understand the processes behind AI technologies we use on a daily basis.

You will find a list of some key terms below. Research the terms, and write down their definitions.

You have 1 hour to complete the task. After you are finished, we will discuss your results. Good luck!

- · Algorithm
- · Machine learning
- · Deep learning
- Supervised learning
- · Unsupervised learning
- · Reinforcement learning
- · Neural network



ABTURE









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