Introduction to AI: Lesson 1

# Worksheet

1. What is artificial intelligence?
2. What are some examples of AI that are already part of your daily life? What makes these examples AI?
3. Discuss the differences between traditional software and AI. How does this combine thinking like a human and thinking rationally?
4. Name some examples of each of the following:

* Problem Solvers

Hint: Check out these links

<https://course.elementsofai.com/2>

<https://www.tutorialandexample.com/problem-solving-in-artificial-intelligence/>

* Language Processors

Hint: Check out this link

<https://becominghuman.ai/a-simple-introduction-to-natural-language-processing-ea66a1747b32>

* Neural Networks

Hint: Check out this link

<http://neuralnetworksanddeeplearning.com/chap1.html>

1. What does rationality mean with respect to AI? What is the goal of rationality?
2. Define and name an example of each of the following:

* Knowledge Representation and Planning
* Probabilistic Reasoning
* Machine Learning
* Communication, Action, and Perceptions

1. What are some of the issues involved in AI?
2. What is your biggest takeaway from this video? Something you found interesting or important.

# Assignment

Watch the Following Video: <https://www.youtube.com/watch?v=rJKmygzqM_E&feature=youtu.be>

Read the Following Article: <https://outsideinsight.com/insights/how-ai-helps-spotify-win-in-the-music-streaming-world/>

What’s a process you wish you could automate? For example, don’t you wish that instead of writing papers, you could feed an algorithm your notes from class and have it produce a coherent paper for you? Do a quick Google search of your idea and see if any of this technology already exists. In about 500 words, briefly explain the process you’d like to automate, if any such technology already exists, and potential problems (technical or ethical) with implementing this technology.