ARTIFICAL INTELLIGENCE – HOMEWORK 1

Q1: There are different interpretations of artificial intelligence in different contexts. Please elaborate on the artificial intelligence in your eyes.

As for me, artificial intelligence is a man-made system. People makes it think, communicate for itself. Especially, this system can learn from available data.

Q2: Artificial intelligence, machine learning, deep learning are three concepts often mentioned together. What is the relationship between them? What are the similarities and differences between three terms?

Artificial Intelligence, machine learning, deep learning are closely related. Because artificial intelligence is a general of field. Meanwhile, machine learning is a part of artificial intelligence. Similarly, deep learning is also a child of machine learning.

Differences:

- Artificial Intelligence:

Artificial Intelligence recreates human intelligence and behaviour → Artificial intelligence produces actions.

- Machine learning:

Machine learning uses algorithms to learn from data to predict a pattern → Machine learning produces predictions.

- Deep learning:

Deep learning is uses advanced computer programming and training to understand complex patterns hidden in large data sets. Deep learning is used for complicated problems such as facial recognition, defect detection and image processing.

Q3: After reading the artifical intelligence application scenarios in this chapter, please describe in detail a field of AI applications and its scenarios in real life base on your own life experiences.

- Recommend songs, movies, books of my interest.

- GPS.

- Scan documents.

- Languages learning apps.

Q4: Which chip is for deep neural networks and Ascend AI processor. Please brief these four major modules.

Q5: Based on your current knowledge and understanding, please elaborate on the development trends of artificial intelligence in the future in your view.

In my point of view, AI will be smarter in the future because the argorithms will get better. Then it will replace us even the smallest things.