

# CON101 ASSIGNMENT#7

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## Artificial Intelligence in Government and Military:

Artificial Intelligence is a field in Information Technology which deals with Intelligence exhibited by Computers. It has been one of the most rigorous field in IT for the past few years and is also being used to solve thousands of problems in different fields to make our lives easier and better.

Artificial Intelligence has wide applications in Government, for example, emergency services, health, military, and virtual assistance. The military has been focusing on the use of Artificial Intelligence for a long time and there has been an Artificial Intelligence Arms Race amongst the powerful countries for some time.

The different sects in which Artificial Intelligence can be used in Military are:

**Training:** Virtual and Augmented Reality play a big role in training exercises these days for the superpowers to create realistic, effective and also very dynamic simulations. It is also used to help soldiers train and gain experience on various system of combats which are deployed during actual operations.

**Surveillance:** Artificial Intelligence has a great role is surveillance these days, a computer can see what human eyes cannot. The smallest of disturbances in sound or vision can be easily caught with the help of Artificial Intelligence which provides a great help to the military in keeping out unwanted elements and prevent any suspicious activity by alerting the concerned Authority. Artificial Intelligence and Computer vision together with IoT provides a lot of help with identification of Targets and classification.

**Arms and Ammunitions:** The modern age weaponry comes with Artificial Intelligence technology embedded. There are missiles which can automatically lock targets and follow the desired path without any need of human control over the guidance. They auto analyze the war zone for the target ranges for the kill zones.

**Cybersecurity:** In the modern age, Cyberspace is considered the fourth war-front after land, air and the sea. A weak, malicious or compromised network can put at risk, the security of the entire nation. The defense of many countries are now using Machine learning and Artificial Intelligence to predict and prevent any suspicious activities or intrusions. Artificial Intelligence has gone a long way in increasing the accuracy of such predictions.

**Challenges:**

The biggest concern with using Artificial Intelligence is investment of money and skills most of all for developing countries which do not have such resources at a large scale which is needed for development of Artificial Intelligence. Also there always remains a risk of systems getting hacked and the resources falling in the hands of the wrong people just due to the smallest of mistakes which can turn out to be more of a disaster than it was of use. Also the mistakes made by machines cannot be help accountable for by anyone. There have been many warnings given by scientists of Artificial Intelligence that could escape from our control and take over and threaten our civilization. There was also an incident in the labs of Facebook where two robots started to develop and communicate in their own language which was not a part of their code and had to be shut down to prevent things going out of hands.