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## Life to AI with other systems

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### Abstract

Artificial Intelligence is the real time solution for solving the problems in these days. The paper covers the contribution of the various other technologies like NLG, NLP, Big Data, Narrative Science, Cloud, and Machine Learning for the improvement of the systems of artificial intelligence. The relationship between artificial intelligence and the other technology forms has proved to be effective and it is evident that the relation will help in making the systems better.

**Keywords:** Artificial intelligence, machine learning, NLG, NLP, Big Data, Hadoop, cloud, narrative science, robots, Chatbots

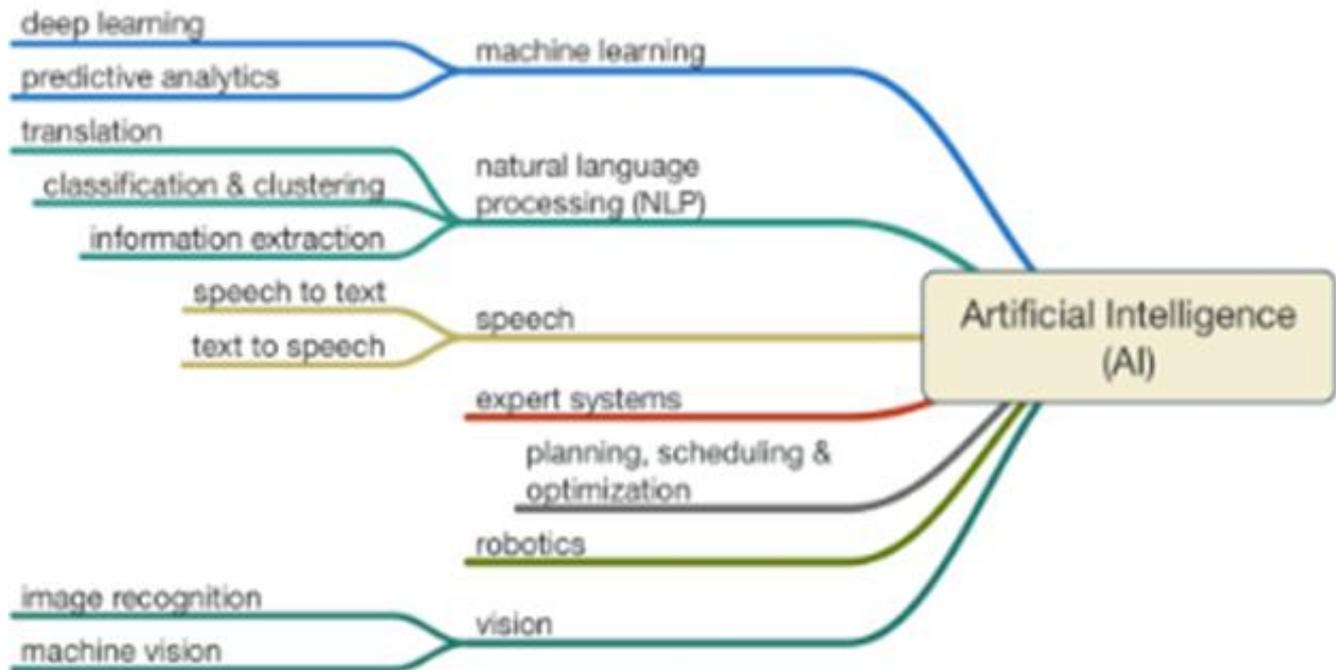
### 1. Introduction

Artificial Intelligence is the intelligent behavior that machines have compared to the natural intelligence that animals and humans have. Therefore, all the devices that are conscious of their environment and they come up with actions that help in improving the success chances of the environment possess artificial intelligence. Artificial intelligence is used in a situation where machines are used in place of human beings and they imitate the function through which human beings connect with other people, for example learning and solving problems. Other technology forms like NLG, NLP, Big Data, Narrative Science, Cloud, and Machine Learning have been seen to have a huge contribution to the improvement of the systems of artificial intelligence. The relationship between artificial intelligence and the other technology forms has proved to be effective and it is evident that the relation will help in making the systems better.

Artificial Intelligence (AI), can be described to be the intelligent behavior that machines have and not the natural intelligence that animals and humans have. Therefore, any device that is aware of its environment and it comes up with actions that help in maximizing the success chances of the environment is seen to possess artificial intelligence (Harris, 2011) <sup>[5]</sup>. Artificial intelligence is used in a situation where machines manage to imitate the function through which human beings connect with other people, for example in solving problems and learning as well. The essay, therefore, seeks to explore more on artificial intelligence with the aim of determining how AI systems can be improved.

Systems of Artificial Intelligent aim at making systems that are already intelligent become able to stimulate execution and decision making that is human like. Machine learning can be described to be the science through which computers can perform without having to be programmed. Machine learning can be of great help in bettering the systems for artificial intelligence (Natarajan, 2014) <sup>[10]</sup>. For example, Case Based Reasoning is a function of machine learning. The function helps in solving problems. The CBR learning from what was previously experienced just like physicians manage to learn from their patients. The system then comes up with generic cases that have their basis on the treatment and diagnosis from previous patients with the aim of determining the problem and also treatment that a new patient will receive (Michalski *et al.*, 1983) <sup>[9]</sup>. The system gets to learn continually from every new situation. Therefore, this helps in showing that machine learning can greatly help in improving the systems of artificial intelligence.

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Internet of Things (IoT) can be described to be the data that flows between different devices. IoT greatly helps in data analysis. Data is collected, analyzed, organized, and then fed to the users that are relevant. Therefore, it has helped in making data and devices to become more flexible in their uses thus making the devices to become more relevant in the day to day lives of human beings (Graham, 2003) [4]. Therefore, IoT greatly helps in improving artificial intelligence because the analyzed data is beneficial in the private and public sector as well. Therefore, it helps in addressing a lot of things from military logistics, to business learning and other important human activities. IoT also helps in making it easier to solve problems, patterns, and correlations. Therefore, it is evident that IoT can greatly contribute in making the systems of artificial intelligence improve.

Cloud computing can be described to be the practice through which a network of remote servers is used and the internet is the host that stores, processes data, and manages them (Bhowmik, 2017) [1]. Cloud computing greatly contributes in making artificial intelligence become accessible because various hardware types that are used by people do not have the computing power required to proficiently run most of the artificial intelligence applications. For example, cloud GPU has more power for computing thus one achieves better results for various applications, for example improved accuracy and processing speed that is faster (Buyya *et al.*, 2013) [2]. The cloud is also seen to be effective in creating business models from artificial intelligence. Cloud computing has also managed to penetrate almost all aspects of online activity. Therefore, it is evident that there is a relationship between artificial intelligence and cloud computing since cloud computing can greatly help in improving artificial intelligence. That is because cloud can greatly help in providing information to the artificial intelligence and the information is important for the learning of the artificial intelligence. Therefore, the relationship can help in transforming the development of artificial intelligence.

Big data can be described to be extremely large sets of data that may be computationally analyzed with the aim of

revealing associations, trends, and patterns especially those relating to interactions and the behavior of humans (Pentecost, 2015) [13]. Data from big data is very important and thus with an increase in the data amount a smart way is needed to utilize the data amount. That is where artificial intelligence comes in. that is because the data can be utilized in devices thus helping the devices to become smart and start performing just like human beings (Margulies, 2004) [8]. The data from big data is unstructured. Therefore, artificial intelligence can greatly help in ensuring that the data manages to be structured thus making it better. Artificial intelligence helps in adding a layer of artificial intelligence to big data thus helping it manage to handle complex tasks in a way that is faster compared to how human beings can manage to handle them (Mallon, 2013) [7]. Therefore, it can help in dealing with the problem of analytical resources shortage. It is, therefore, evident that big data greatly helps in improving the systems of artificial intelligence.

Narrative science involves intelligent narratives that are created by Quill. They are relevant and automated communications that have all the information that is important to humans. They are written in a daily basis language. Narrative science helps in telling one regarding what the data is and why. Therefore, with the knowledge it becomes easier for one to make improvements on their enterprise. Narrative science has a great relation with artificial intelligence. With narrative science, it will be easier for the communication gap between machine and man to be closed. That is because the machines will be made more intelligent thus making it easier for man to communicate with them without any difficulties. Artificial intelligence will also help in improving the communication between the computers and the other devices and that will help in showing that devices and computers can manage to work together without the intervention of human beings. With narrative science it will also be possible for artificial intelligence systems to communicate with each other. That shows that the systems for artificial intelligence will end up improving greatly.

NLP is Neuro Linguistic Programming. It can be described to be the way people communicate with themselves. Simply, it means that people can programme their mind language. With the advancement of technology the understanding of the general public has also progressed (Shapiro, 2007) <sup>[11]</sup>. Neuro Linguistic Programming helps in pursuing various problems that are in artificial intelligence. That is because it helps in comprehending the requests of users and thus the systems of artificial intelligence manage to determine how they can best perform their tasks. Therefore, the use of NLP can greatly help in changing how people interact with systems and gadgets that they use in their day to day activities (Westland Institute, 2016). With the use of artificial intelligence and NLP, it will also be easy for businesses to improve since they will manufacture their goods and also provide better services. The use of NLP can also greatly help in making people have a better understanding of the systems of artificial intelligence. Natural Language Generation (NLG), can be described to be the natural task of processing language in order to generate natural language from a representation system of a machine. It consists of software systems that help in automatically generating reports and narratives. The language is easy to read and it helps in explaining or even summarizing input data. NLG is related to artificial intelligence since it helps in advisory and reasoning systems (Stent *et al.*, 2014) <sup>[12]</sup>. For example it helps in determining the systems that one should approve and those that one should deny. It also helps in the identification of potential fraud (Whitby, 2009) <sup>[15]</sup>. Therefore, that helps in showing that it greatly contributes in improving the systems of artificial intelligence thus making the use of artificial intelligence become popular and more important (Dale *et al.*, 2000) <sup>[3]</sup>. The use of NLG and artificial intelligence have helped in making the day to day activities become easier to handle.

In conclusion, it is evident that artificial intelligence has greatly helped in changing a lot of things for human beings. That is because devices can be programmed in a way that makes them smart just like human beings and thus they can manage to do things that human beings do and also think and reason like human beings. Other forms of technology, for example, NLG, NLP, Big Data, Narrative Science, Cloud, and Machine Learning have been seen to greatly contribute to the improvement of the systems of artificial intelligence. The relationship between artificial intelligence and the other forms of technology has proved to be effective and it is evident that the relation will help in bettering the systems. That is because in the near future computers will have a better way of communicating with other devices and people will also manage to communicate with computers without difficulties.

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