

# USE OF ARTIFICIAL INTELLIGENCE IN LIFE SCIENCES

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**Abstract:** *Artificial intelligence is the system ability correctly interrupts external data. 'Artificial intelligence is nothing but the machine learning program. It force to computer for learn new things which is very useful for new research now a days. Now a day this type of recent technology is very useful in life science.*

*Artificial intelligence and machine learning is co related to each other. It includes successfully understand human speech, games like chess. It will operate car automatically. Robotics is also called as machine learning. In 21<sup>st</sup> century artificial intelligence experienced so it become essential part of the technology industries it help to solve many impossible and challenging problems in computer industries and operation research.*

## **Application:**

- It plays important role in sorting the different cancer cell.
- It is used in making of drones and self-driving cars. Medical diagnosis, prediction of judicial decision, playing games, proving mathematical theorem.

## **Health care:**

Artificial intelligence is very useful in health care department

It calculates age of bone by using x rays.

Artificial intelligence correctly determine the exact and accurate dose of immunosuppressant drug for organ implant patient.

Artificial intelligence is used in life science means in health care for differencing the cancer cells and treatment of that.

There are lots of research and drugs are present related to cancer.

There are 800 medicine and vaccines are present to treat cancer, so it is very difficult for doctors to choose correct treatment for particular type of cancer. So for solving this problem Microsoft is working on special project to develop a machine called as HANOVER this can differentiate the particular drug and treatment for particular cancer.

In one another recent study is found Artificial intelligence helps doctors to identify skin cancer.

Artificial intelligence helps doctors to interact with patient online because by using machine learning all data of millions of patients stored in particular machine and it make very easy way to treat and consult patient online.

Machine learning is the process in which computer can learn itself without being programmed.

In one another study is studied that machine learning performance very good work like ophthalmologist may give decision within 30 to 40 sec with 95% accuracy.

Robot done surgery in “Children’s national medical center Washington”, robot performed soft tissue surgery, stitching on pig better than human being.

IBM has create its own intelligence computer it successfully diagnosed the women suffering from Leukemia.

Artificial intelligence use for studying genomic information. Genomes are natural fit for Artificial intelligence it transfer genomic information in to image so it make easy the study of genome. It represents different nucleotides and it is used to identify polymorphisms. By this above method many uncommon organism can be studied and it gives employment opportunities for scientist.

Nowadays Artificial intelligence plays very important role in life science for data base, digitized and analysis.

Artificial intelligence is useful in automotive, finance, video game, military, audit, advertising and art.

Nowadays Big data and Artificial intelligence entered in diagnosis and treatment of eye disease. This technic can detect all diabetic retinal disease.

Nowadays it is possible to diagnose an additional 50 other disease by the help of Bigdata and Artificial intelligence. Means it is recent trend in Life Science. Globally Artificial intelligence, Machine leaning, Big data is used for detection, Analyze and treatment of disease. By the help of AI the algorithms of data are quicker and more accurate. By this process human detect and analyze many things related to disease which they cannot detect by naked eyes. This process can detect and gives accurate results rather than experts.

Nowadays Doctors used High-tech method for finding and making correct individualized decisions for their patient, means this Artificial intelligence, Machine learning and Bigdata not only diagnose the diseases but they provide better results. By the help of Artificial intelligence and machine learning Digitize operation will be held it provides virtual image on the area of the eye being operated on big screen, by the help of this screen surgeon performs their work means surgery with perfect view on that big screen.

By the help of Artificial intelligence and Machine learning it is possible to identify diabetes, hypertension and risk of suffering a heart attack or stroke on accurate basis. Hence this technology gives us a great contribution to diagnose cardiovascular disease.

According to the scientist Denis and Michael Garris, Artificial intelligence is nothing but the uniting medical imaging with computer science.

The scientist Bergeron and Garris wrote standardized data at a scale with Machine learning and create new generation of diagnostic and analytic models.

The Artificial intelligence is used in the MRI scan for reducing amount of Gadolinium. Scientist observed that they compare the MRI scan of 200 copies in that they found more accuracy less Gadolinium in which scan which is done by Artificial intelligence and Machine Learning. Researcher concluded that it reducing the Gadolinium dose without compromising diagnostic quality.

This process is not for replacing existing imaging technology but only they are trying to improve its value and existing information.

Artificial intelligence may help in the reducing of Gadolinium dose in MRI.

### **Conclusion:**

Hence it is concluded that the Artificial intelligence, machine Learning is the recent trend of Life science which is very helpful for diagnosis and treatment of disease.

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