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# Introduction

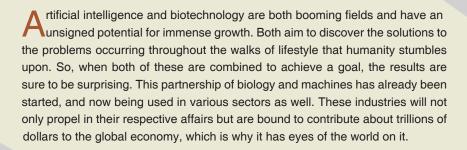
Artificial intelligence and machine learning are two closely related terms that focus on intelligence-the most valued asset of humans. Al and ML serveasaconnectingplatformbetween technology and the environment to produce smooth, unadulterated and smart responses. They serve as an instance of the human mind, but without human error. Though some loopholes can be generated, but they are also being worked upon. A simple example of face recognition feature that today almost every phone has is a benefaction of AI and ML as well. Now, efforts being made around the globe to incorporate this intelligence for the benefit of human health and drug discovery.

# **Artificially Intelligent**

#### - Arushi Verma

4th Semester, Amity University (AIB), Noida

- @ArushiV18463997
- https://orcid.org/0000-0002-0303-8368
- arushiverman16@gmail.com



# **Keywords**

- Biotechnology
- Artificially Intelligent
- Artificial Intelligence
- Machine learning



A part of the biotechnology and pharmaceutical industry is to deal with the study of molecules of various types and then deciphering the techniques to deal and manipulate them. Their pattern and approach of discoveries are very target-specific, due to the critical molecular level they deal with, which can be helped using artificial intelligence.

Artificial intelligence largely contributes to pre-processing/manufacturing steps of drug discovery. This means that target matching is an important area that AI crucially helps in. Different approaches are put forth depending on the kind of results we are aiming

for. ML helps in molecule identification and matching depending upon the structure, composition or any such specificity that we incur in our artificial agent (a term referred to any machine or system that has been developed using artificial intelligence), to gain specific results.



Several companies like IBM, which came up with IBM Watson genomics already uses AI and machine learning for cancer diagnostics. It is also applied in pathology, detection of rare disease and heart diseases. AI ensures precision and fastens the processes

by reducing their planning time like in radiology and radiotherapy.

In present times, various people have several kinds of specific health complications that might not be common in other patients, like some kind of allergy or any other disease. This means that the individual cannot be treated with the same processes or medication that the other patients were treated to, or some kinds of improvisations are required in the general approach of treatment. Al can help us with streamlined detections and personalized medications. On similar lines, applications are being developed to maintain patients' medication and their timely consummation through the setup of alarms and a medicine name pop-up which can help people with chronic diseases and old patients especially. Some of such apps are - Medisafe, Pillpack, Med Minder, etc.

Al is also driving the processes of gene editing, i.e. developing gene designing constructs that work through Al and does all the work, right from the selection of RNA to data analysis.



Another giant global health issue is organ donation and it's matching.

Finding a willing donor and that too a compatible one, or waiting for a deceased viable donor can take a long time, sometimes more than the time they are left with. All this hustle can be avoided with the aid of Al. Instead of the conventional one-to-one system,

Al can facilitate the matching of donors and recipients in a matter of seconds. This way a large number of lives can be saved and many healthy organs can be judiciously utilized, which are otherwise discarded even without a look. All it requires is a platform to connect all the recipients, willing donors with Al.

This is just the start, artificial intelligence with biotechnology and pharmaceutical industry is on a roll which is destined to impress us in the near future itself. We all can find our little role in this association, thus benefiting both us and the society in the way. All in all, new technologies, discoveries, and methods are being devised by scientists currently, to simplify and comfort our lives.

#### REFERNCES

https://gpuoncloud.com/applications-of-artificial-intelligence-in-biotechnology-pharmaceutical/

https://datafloq.com/read/can-ai-boostour-intelligence-through-education/7467

https://en.wikisource.org/wiki/Page:Text-book\_of\_Electrochemistry.djvu/327

https://www.nature.com/naturecareers/events/event/75689

https://biopharmadealmakers.nature.com/users/114910-biocuba-farma/posts/35960-biocubafarma-bringing-cuban-biopharma-to-the-world

https://www.you-eq.com/news-events/2019/7/18/emotional-intelligence-amp-artificial-intelligence-eq-vs-ai

https://blog.uiin.org/2017/11/ dr-jean-pierre-segers-exploresregional-innovation-systems-belgianpharmaceutical-industry/

https://hackernoon.com/artificial-intelligence-vs-machine-learning-whats-the-difference-9e35u30a0

https://www.facebook.com/anylinecom/posts/more-and-more-applications-are-being-developed-to-provide-a-quick-and-portable-a/1121994651193770/

https://www.forbes.com/sites/cognitiveworld/2019/03/03/how-will-ai-help-me/

https://www.forbes.com/sites/bernardmarr/2016/12/06/what-is-the-difference-between-artificial-intelligence-and-machine-learning/

https://www.sciencedirect.com/science/article/abs/pii/S2468781218301590

https://loinc.org/72088-8/

https://www.adlibris.com/se/bok/artificial-intelligence-and-machine-learning-fundamentals-9781789801651

https://dangersofaiinbiotech.blogspot.com/2019/04/artificial-intelligence-and\_23.html

https://asu.pure.elsevier.com/en/publications/artificial-intelligence-in-the-development-and-design-of-biochemi

https://www.ncbi.nlm.nih.gov/pubmed/31837096

https://en.wikipedia.org/wiki/Clinical\_ Dementia\_Rating

https://books.google.co.uk/books?id= 1ehXaUbNLt0C&pg=PA158&lpg=PA 158&dq=%22applications+are+being +developed+to%22&source=bl&ots=-3QTOf5jWk&sig=ACfU3U2fiOlfRURM-V8qvqWT3JOBTsPgSA&hl=en&sa=X&ve d=2ahUKEwjbvprp287nAhWFtHEKHVOC C7gQ6AEwAXoECAoQAQ

https://www.linkedin.com/today/author/shridhanrokade

https://advancio.com/what-kind-of-problems-will-artificial-intelligence-solve/

https://www.reversetide.com/biotechnology/

https://www.facebook.com/IllinoisArch/posts/

https://www.tpa-group.at/en/industry/biotechnology-pharmaceutical-industry/

https://books.google.se/books?id=PtbDes NTZLIC&pg=PA197&lpg=PA197&dq=%2 2of+these+are+combined+to%22&source =bl&ots=Cuof2YoH28&sig=ACfU3U1Ez1 Dbe6KLx\_c5RjW4dTniFfT1eAkhl=sv&sa= X&ved=2ahUKEwjGw5Dp287nAhWumlsK HRU BL0Q6AEwAXoECAoQAQ

https://usakarate.cc/usa-karate-pearland/ https://orcid.org/0000-0002-0303-8368Artificial

https://gpuoncloud.com/applications-of-artificial-intelligence-in-biotechnology-pharmaceutical/

https://medium.com/@ISDDesign/positiveoutlook-machine-learning-and-artificialintelligence-in-healthcare-95ff187768b

https://www.slideshare.net/pieroleo/theevolving-promise-of-genomic-medicineibm-white-paper

https://www.researchgate.net/publication/259336062\_Artificial\_Intelligence\_in\_Medicine\_and\_Cardiac\_Imaging\_Harnessing\_Big\_Data\_and\_Advanced\_Computing\_to\_Provide\_Personalized\_Medical\_Diagnosis\_and\_Treatment

https://www.slideshare.net/ CesarMRibeiro/ibm-53744310

https://www.newmediabusinessblog.org/index.php/AI\_%26\_Healthcare

https://www2.deloitte.com/content/dam/ Deloitte/us/Documents/life-scienceshealth-care/us-lshc-artificial-intelligence.

https://technostacks.com/blog/deep-learning-in-healthcare/

https://www.mdpi.com/1999-5903/9/4/93/pdf



Arushi Verma a student, currently pursuing B.tech in Biotechnology (Amity University). I believe that cybernetics and internet is like a ball of strings which acts like a mediator, and connects several disciplines of our society. As a result, we can all relate to each other better and help different people through our own knowledge.

arushiverman16@gmail.com

#### Annexure I

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### **Urkund Analysis Result**

Analysed Document: AI and biotechnology.docx (D63851984)

Submitted: 2/13/2020 3:17:00 PM

Submitted By: editorial.scholastic.seed@gmail.com

Significance:

Sources included in the report:

Instances where selected sources appear: 0



Note: The Cybernomics had used the urkund plagiarism [http://www.urkund.com] tool to check the originality.

#### **Reviewers Comment**

Review 1: That type of A.I., the kind that we see in wonderful stories depicted on telly through the adores of HBO's powerful and touching

Review 2: The truth is that, whether or not true A.I. is out there or is actually a threat to our existence, there's no stopping its development and its rise.

Review 3: The most significant difference between these forms of reasoning is that in the deductive case the truth of the premises guarantees the truth of the conclusion.



#### **Editorial Excerpt**

The article has 0% of plagiarism which is accepted percentage for publication the finding related to this manuscript Artificial intelligence (Al), the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings. The term is frequently applied to the project of developing systems endowed with the intellectual processes characteristic of humans, such as the ability to reason, discover meaning, generalize, or learn from past experience It has been earmarked finalized for publication under the category of "Argument Based Credentials (ABC)".

# **Acknowledgement** \



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