

Homoeopathy - Adopting and Adapting Digital Artificial Intelligence

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Abstract: *Upgrading yourself is the only way of staying ahead. To upgrade is to make improvement in something or exchange it for better version. There may be up gradation of skills, knowledge or system. Homoeopathy is a gentle but effective form of treatment which stimulates the natural ability of the organism to heal itself. Main principle of homoeopathy, the law of similars, which predicts that a disease can be cured by a medicine, which in healthy people is able to produce a condition that resembles the disease. The law of similars is probably a basic law of nature. Homoeopathy has ability to treat many chronic diseases such as Cancer, Diabetes, Arthritis and Asthma. During consultations, homoeopaths use Materia Medica - in which descriptions of the therapeutic effects of the remedies are gathered and repertories in a digital or a print medium to help them find the indicated remedy. So for upgrading this holistic system of medicine there must be full-fledged inclusion of technology that allows computers and machines to function in an intelligent manner. This computer or machine based intelligence is called as Artificial intelligence. It is the simulation of human intelligence processes by machines, especially computer systems. We all know that technology has great potential in reducing overloads from human shoulders, storage capability, saving costs and lots more. But its functionality in Homoeopathy, came in to the view a few decades back when repertory software came into existence. By adopting and adapting this digital world in the field of Homoeopathy we can create a revolutionary change.*

Keywords: Homoeopathy, Artificial intelligence, Machine Learning, Data Mining, Diabetes,

1. Introduction

In the scenario of globalisation, the challenge was to develop Homoeopathy to reach all the people. Earlier, global brands came from the west. Today, the world is looking at the emerging markets in India and the fact that India is the second largest consumer market in the world. Now a day's people abroad are well aware of the harmful effect of chemicals used in medicine as well as beauty products. Homoeopathy which is a gentle but effective form of treatment which stimulates the natural ability of the organism to heal itself has become popular all over the world because of its individualization, cost effective therapy and has least side effect. So for the globalisation of Homoeopathy and to compete it in the international market it has combined with Artificial Intelligence. Thus Homoeopathy with Artificial intelligence has become gift to the world.

Aims and objective

Study the application and significance of artificial intelligence in the globalisation of Homoeopathy

2. Materials and Method

Source of information was taken from web browser and few papers related in this context.

What is Artificial Intelligence?

In computer science artificial intelligence (AI), sometimes called machine intelligence, is intelligence demonstrated by machines, in contrast to natural intelligence displayed by humans and animals.

History of AI

It has greatly evolved into a science of problem-solving with huge applications in business, health care, and engineering. One of the pivotal applications of AI is the development of the expert system. The year 1956 is usually considered to be

the year when AI was born, as it was in 1956 that Dartmouth College had organized the famous conference. However, the preceding year, that is, 1955, saw its first AI system that was called Logic Theorist and the people who developed it was Allen Newell, Herbert A. Simon. Nearly, 40 theorems of Principia Mathematica by Alfred N. Whitehead and Bertrand Russell were proved using this system. However, the designers of the system could not get it published. In an interview with the BBC, theoretical physicist, Professor Stephen Hawking, had said that human efforts to create machines that can think are a huge threat to the existence of human race and that the race to develop a complete AI could mean that the human race would come to an end in the future. This warning was given by Professor Hawking after he was asked about revamping the technology that is used by him to communicate. The technology used by him involves AI of a basic nature. However, the warning of Professor Stephen Hawking has not been taken seriously by the world. Throughout the world, innumerable researches are being carried out on AI. A large amount of money is being invested to create a system that can function far more efficiently and at a much less time than a normal human being. Be it an educational institute, a manufacturing firm, a government office, or a research organization; AI finds its application in every field.

Importance of AI in Homoeopathy

Technology develops at a demand of the science for the benefit of end user. Technology adoption in Homoeopathy are taking place in various form-

1) Knowledge

- Webinar
- e-CME
- e-lecturing

2) Problem solution

- Instrumentation for Homoeopathic diagnosis
- Analysis and Selection of Remedy
- Individualization of Patients

3) Research

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- Drug / Diseases Analysis
- Action of medicine
- Objective and Subjective Evaluation

Various researches has been conducted till date for Homoeopathy based disease diagnosis and effectiveness of Homoeopathic remedies using machine learning. Homoeopathy, has taught that any presence of disease in our system will be due to any of the three miasms like Psora, Syphilis, Psycosis. These three are held to be responsible for all disease of a chronic nature and to form the foundation or basis for all disease in general. Homeopathy is a system of medicine founded on a definite law 'Similia Similibus Curantur' which means 'like cures like'. According to this law, the choice of the medicine is fundamentally based on the principle that the medicine must have the capability of producing most similar symptoms of the disease to be cured in healthy persons. The aim of the homoeopathic remedy is to stimulate the body's immune system to fight the illness in a natural way.

One research paper by Jayanta Kumar Das, Subhadip Chakraborty, Swarup Roy, has proposed model using Artificial Intelligence which has proved Homoeopathic drug Arsenicum Alb is effective against Covid-19. They proposed scheme for constructing a host-viral PPI network using pair wise codon usage patterns of host and viral proteins. To analyze the interaction mechanism of SARS-CoV-2 viral proteins in host signalling pathways, they selected all the genes involved in 17 candidate signalling pathways. They calculated the RSCU similarity score for all pairs of host-viral candidate proteins to build the network. They further analyse the host PPI network to list highly connected host proteins and highlighted a few potential drugs targeting those proteins for possible repairing of affected pathways during COVID-19. Proposed work explored the codon usage pattern similarity between host proteins that are participating in a few major signalling pathways and SARS-CoV-2 viral proteins.

In a breakthrough scientific study by the team led by Prof Dr Nisanth Nambison, it was found that after training the ML (Machine Learning) algorithm, the AI (Artificial intelligence) can diagnose the root cause of rise in blood sugar of patients. It does so by recognising the abnormal patterns going on in the body that too in real time, by continuously collecting 288 blood sugar levels in a day and 4032 levels in 14 days. After analysis of the data points of importance, using AI (Artificial intelligence) the system narrows down to the cause and suggests corrective action, these corrective actions made 14 out of 20 patients in the study medicine free, 3 patients could curtail the dose of medicine, and 3 others started symptomatically feeling better. The Artificial intelligence (AI) software developed by Akhilesh Soni and Dr Nambison predicts future of disease, through understanding of historical behaviour of one's body, hence, alerts one to take corrective measures.

Another application of AI in the field of Homoeopathy is data mining. Data mining is a computational process of discovering patterns in large data sets involving methods at the intersection of artificial intelligence, machine learning, statistics and database systems. The term data mining

appeared around 1990 in the database community. Currently, data mining and knowledge discovery are used interchangeably. To achieve valuable information, in context of Data Mining, it follows three major steps i.e. data collection, data shrink and valuable data quest. There are various approaches adopted by variety of researchers. Such approach involves, association analysis, Extrapolative modelling database fragmentation and divergence detection.

From the eve of 1970's the GOI has made enormous attempts to standardize Ayurveda by formulating numerous qualifications for Ayurveda practitioners and necessitated accreditation policies to institutions across states. Some of the initiatives are Central Council of Homoeopathy (CCH) Act framed in 1973 under the Department of Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy (AYUSH) established in 1971, Ministry of Health and Family Welfare framed to monitor higher education in Homoeopathy and Central Council for Research in Homoeopathy (CCRH) designed to pursue research in Homoeopathy. This information base is accessible through Decision Support System (DSS), data mining tool and digitized searchable texts. The data-mining tool enables precise knowledge searches using Boolean operators. Information related to diseases, causative factors, symptoms, treatment guidelines, drugs, dietary recipes, lifestyle changes and treatment procedures can be searched through complex queries employing any number of combinations of search strings.

3. Conclusion

Homoeopathy is the system of medicine that originated in Germany and now it is even more popular in Asia, especially India, Pakistan, and Sri Lanka. But now, this medical system has been combined with Artificial intelligence. This combination has made Homoeopathy more hi-tech, detailed, credible and more globalized in recent past. Since Homoeopathic system of medicine is cost effective with least side-effect, in Homoeopathy e-commerce AI can be used to expand the market by significantly improving user experiences. It can also be leveraged to improve economic applications that have a significant impact on cost reduction, revenue growth, and asset utilization.

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