

ARTIFICIAL INTELLIGENCE

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What is AI?

[1] Artificial Intelligence is the science and engineering of making intelligent machines and computer programs. AI is designing of making clever machines, particularly wise pc programs. It is used to understand human nature using computer knowledge. AI is mainly divided into five main areas: Search, Pattern-Recognition, Learning, Planning, and Induction. To manage some critical problems machines will construct some modes of environment, using scheme of induction. Goal of AI is to produce intelligent human behaviour in machines automatically, in our own intelligence. AI researches are free to use the methods that they observe in people or that involve more computing than people can do. AI has tremendous implementations, one of the part is Robotics. There are many research done for artificial intelligence. One main thing is research done on medical diagnosis called caduceus program. AI constantly faced problems in how to make the program. The ultimate goal of AI is to create person or an humble animal. AI is successfully travelling in their goals and also the researchers said that they will achieve it as soon as possible.

History of AI

[2] In beginning Artificial Intelligence are traced to fiction and imagination. During the inventions of electronics, engineering and many other have used AI. Earlier works it include in solving basics in learning, knowledge, and programs translation, theorem, associative memory, and knowledge based systems. It belongs in the history of Human Intelligence to complicate teleological accounts. AI naturally emerge from centuries to reduce human reasoning to logical formalism. History also say that AI produce intelligent behaviour in machines run parallel to make human behaviour. AI is mostly used in medical field. In endoscopy AI is used to detect and rectify benign and malignant GI lesions and assess malignant lesions depth of invasion. It is also used in capsule endoscopy and inflammatory bowel disease. Thereby it is mostly used by endoscopist. It also works on incorporating clinical practice such as work flow integration, data storage, and data privacy.

Growth of AI

[3] Artificial Intelligence is considered as fourth industrial revolution. With the help of big data AI transformed all industries in world to simulate human intelligence into computer intelligence. The systems which are programmes intelligence can solve real world problems accurately than the system that are hardcoded. AI plays a major role in business analytics problems, it is also used to solve business such as marketing, credit card fraud determination. The growth of AI is divided into two groups. 1. Task from labour is integrated in growth model, 2. The aggregate demand is introduced. With these features AI can decrease the labour income. When the elasticity is high it reduce demand and slow productivity.

In a Study AI technology was used to develop individual tree based basal area (BA) and volume increment models. The models successfully account for effects of incident solar radiation, growing degree days and incidences of soil water and nutrient availability on BA and volume increments of over 40 species at 5 year intervals.

AI in Healthcare Appliances

[4] Artificial intelligence is used in healthcare for data management. It is the first step in revolutionizing the healthcare systems. It is also used in Health project and medical statistics. AI is used in Orthographic Surgery is remarkably poor to date. It is very powerful tool and it is responsible for entire medical profession. It plays a major role in ICT and have huge contribution in growth of medical systems. The challenging role for AI in healthcare is for IOT researchers. AI is mainly used in hear aids, ultrasensitive e-skin, height and weight measurement, medical diagnosis, health monitoring. AI is used as key parameters in pressure sensors. Many transduction mechanisms, which include piezoresistivity etc., exist for converting tactile stimuli to electrical signals. AI is used as exporation of functional materials for flexible pressure sensors. It optimize concept and recent developments of sensing devices towards practical pressure sensors. AI also includes scheduling patients, billing ,optimizing staffing, creating protocols, assessing image quality, reducing radiation dose and image interpretation.

AI in Manufacturing and Production

[5] Artificial intelligence in manufacturing mainly include manufacturing oriented big data network interconnection technology and many network technology. Ai is also an intelligent guarantee technology of online remote support services. Nowadays AI is used in many of the industrial applications. In garment manufacturing it is divided into three categories, namely, production planning control, scheduling garment quality control and inspection and garment quality evaluation. The main problem in garment manufacturing is adoption of AI technologies to realise the internalisation of environmental cost AI was applied in the decision of tree algorithm. Osmotic manufacturing is using AI as main processor to concert macro to micro, these can be interpreted and formalized in AM-AI linking the following ideas, utilizing and combining the findings and knowledge of AM-AI. Idea is, that a flow field, of every production or manufacturing process with a graph. When using a graph theoretic network the information amount decreases, depending on degree of net, also the relevant information is pertained in net itself if choosen appropriately.

AI in Security and Surveillance

[6] AI in cyber security represents as a potential usage arena for main areas. It is mainly used to scan and patch vulnerabilities. Humans should have a great efficient to visual data to scan like AI in security. AI is mainly used to scan the human activities and patch the unusual activities. In International level AI is used for military power, politics more broadly. Moreover AI is commonly used in Military. Algorithm named improved soft computing has been created to optimize the area coverage percentage of MWSN (Mobile Enabled Sensor Network). In International Security AI is used as voice recognition algorithm, open source for machine learning and understanding data. AI combined with UAVs and ground robotics are protected in the International Borders. They prevent future terrorist attack, reduce nation's vulnerability, minimize the damages and recovery from attacks that occur. They also prevent in border and transportation security, both domestic and international counterterrorism is prevented by AI, defending against catastrophic terrorism, emergency preparedness and responses are quickly accessed. Many ISI attacks are provoked by AI. The US National science Foundation is keep on researching in AI for International Security. Moreover every nations are working on AI for the security in Border and Even inside the nation.

AI in Education

[7] Artificial Intelligence (AI) has undergone many developments over last Twenty Five Years. There are three major developments: 1. Goals, 2. Practices, 3. Environment. AI mainly focus on changes that affect it. AI include supercomputer to include computer systems for education process. It is used in making robots. It also checks the spelling, pronunciation for children. It helps in answering deep questions. In China AI education has become popular in both government and private school sector. The field of AI contributes in both derivative and innovative. Firstly it brings theories and methods from related fields such as AI, cognitive science and education. Secondly it generates its own large research issues. Rising papers introduced a paper named AI and Education from web science and google scholar since 2010. 70% people are interested to study in AI. But AI should get advanced more in deep learning and data mining to deal with complex issues. During corona period every country used AI as main learning technology. Schools of every country used AI to Teach. Moreover it is very useful for students for learning.

Advantages of AI

[8] AI is used by both teachers and students. For students it is used to search deep questions and for teachers it is used in making classes, question papers. AI is used in E-learning, where students and teachers are feeling comfortable to use. As AI is used in E-learning issues of time and place are solved, where travelling is prohibited by both students and teachers. Some robots like Ozobot and Curobot help in training teachers and children. It records all the data thought in it and displays when everyone need. It improves the quality of education. It also develops learning capability and prolong the life of application. Some robots like Ozobot and Curobot help in training teachers and children. It records all the data thought in it and displays when everyone need. It improves the quality of education. It also develops learning capability and prolong the life of application. The fine advantage of AI is it understands all the languages we speak. AI researches succeed in their natural language. AI is used in most libraries to assemble the books. The function of AI can be Infinite, in less time. It is also used to discover unexplored things. It can take stressful job and complete that without any struggle that humans have. It gives less errors and defects.

Challenges or Dis-advantages of AI

[9] AI users undergo contempt as lack of interaction and relaxation. With respect to clarification, explanation and interpretation it is less effective than of traditional way of learning. Human jobs are affected and Unemployment problem has been increased. Technological dependency has been increased. Requires a lot of time, money and investment. Critical thinking is not implemented as a normal way. Emotions are affected by AI teaching and learning. If AI is used in learning, thinking capacitance goes down. It can run a program and even reverse it and run it. It can be misused leading to mass scale distraction. Moreover it may corrupt younger generation. Lack of human touch is huge challenge. It has ability to replace the human jobs. Younger generation become lazy because of technology, technology dependency increased, the creativity is depends upon programmer, program mismatch is done opposite to the command. AI is also used by terrorists and terrorist attack. Most of the terrorist attack is not based on AI but some attacks are done by using AI.

Conclusion

[10] In My Opinion AI assists in multiple processes including scheduling patients, billing, optimizing staffing, creating protocols, assessing image quality, reducing radiation dose and image

interpretation. It is not something to be feared, as it will not replace humans, rather it should be embraced for its ability to improve and prolong lives. In future AI will enable new capabilities to address library users information needs. It is necessary to understand the advantages and disadvantages of Artificial Intelligence and machine learning for better use. Library and Information centres will get benefits by the development of the efficient experts system for technical services as well as Information processing and management. From the above information we can see that Artificial Intelligent Technologies can provide more competitive advantage. At the end we have been during this research through the brief history and growth of Artificial Intelligence. There is no top of AI, there is more return from it ,who knows what the AI can do for us within the future, may be it will be a whole society of robots. The continuous development of AI in education brought convenience to business English teaching The complexity of natural language learning provides useful place for artificial intelligence, which can promote individual learning, provide dynamic learning feedback information and improve learning efficiency. Artificial Intelligence can promote the use of language learning. Using Artificial Intelligence it can invest more time in the teaching process and become more energetic. Make full use of Artificial Intelligence technology to strengthen the in-depth and effective development of students learning. Therefore, Artificial Intelligence will make the world more powerful and safe.

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