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AI for One and All

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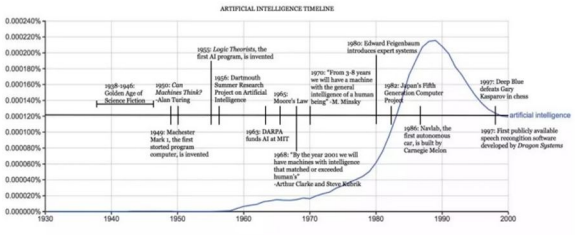
Abstract: ***Artificial intelligence is for one and all, it is for people from all works of life – a student, a homemaker, a parent, a professional in any field, a senior citizen, basically anyone who is interested in getting acquainted in artificial intelligence. If you will ask a question from non-technical person that have they ever used artificial intelligence in any sense, so there quick response will be no but the correct answer is yes because we all are using artificial intelligence concepts in our day to day life either knowingly or unknowingly. Few of the applications powered by AI are: Alexa, Google Assistant, Cortana or Siri. We have an assistant in our smart phones that can help us in making calls, send messages, search information and a lot more just like a real person. AI is basically working as a tool or a helping hand to human beings to make their life easier in various senses. There are a lot of such technologies that surround us in today's time but AI has several more abilities that make it more special than any other technology. Artificial intelligence refers to the simulation of human intelligence in machines that are programmed to think like human beings and mimic their actions. It is the ability to rationalize the things and take actions that have the best chance of achieving a specific goal. Artificial intelligence is an over acting principal, art of technology, a form of intelligence, field of study which seems to be something which came into existence recently but AI is making news since 1956. It has the potential to impact industries and work forces in profound way and help us unlock economic potential. Government is working enormously on creating national worldwide comprehensive AIstrategies to create sustainable, inclusive and positive impact on citizens, industries and overall societies.***

Keywords: Artificial intelligence, AI aware, Computer vision, NLP, Statistical data, Robotic arm, AI appreciate

I. INTRODUCTION

The idea is to review a combination of tools and technologies in the field of implementation of AI not only for techno-savvy but for all. AI is something which is not only for those who received rigorous AI related education during their higher education and are highly susceptible AI technological advances but for those people also who are even not aware about their day to day use of AI technologies and applications in various aspects. Artificial intelligence, the concept first coined in 1956 by John McCarthy, is broadly defined as the scientific understanding of mechanisms underlying through and association for the advancement of artificial Intelligence. During its development period, its context has been evolving with commercial, economical and sustainable application in wider fields. The advancement of AI industries have built during 21st century and since 1960s an instance of achieving success in a sphere of AI technologies cleared the initial fogs and later in 1997, IBM's Deep Blue, a chess playing computer program defeated world chess master Gary Kasparov. During same year in addition to this speech recognition system, was implemented on windows, which unveiled the development in natural language processing.

Figure 1 . 1: Developments in AI technology in 20th century



Source: Harvard graduate school of arts and sciences

AI strategy now a days is revolving around inclusiveness. It is imperative for us to facilitate a wide range of community as possible to participate in an Indian AI future. Gold & mine, ministry of education, central board of education in a league to launch AI and its applications for all.

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II. AI AROUND US

Artificial intelligence has been Revolutionizing industries and economies. AI is a technology that is impacting our lives for long time now. There exist a wide variety of applications and tools powered by AI that helpus in our day to day life. AI is being useful for all of us despite our age, gender and professions. Social media recommendation, Google assistance are some examples in our daily life powered by AI. Artificial intelligence has the potential to analyzehuge amount of data in a very short span of time. It can perform bulky and high volume task efficiently. It can help us achieveincredible accuracy in many real life problems.

III. HOW DO MACHINES LEARN IN AI

Machines too learn from experience and training like human beings. For eg . First time when you were taught mathematics, starting from numbers you went through basic arithmetic operations and now you can easily calculate and maintain calculations in daily life. Information that was taught to you helped to understand the concept and your experiences improved your performances. Same is the case with machines as well. Machines are given some data which is basically the information that build their intelligence. Machines first get trained on the given set of data and later that generate their own algorithms in the form of set of instructions based on their understanding for that particular situation or environment. Once the machine starts functioning, it updates its algorithm according to its own experience and needs.

Workflow of this is:

1) Machines collect data – Data Acquisition
2) Analyses the data to find pattern – Data Exploration
3) Figure out various solutions of single problem – Solution Modellling
4) Receive feedback and figure out best solution – Evaluation
5) Implementation of optimal solution – Deployment

IV. AI AS A SELF LEARNING PROGRAM

1) *Natural Language Processing:* It helps the machines to communicate. AI uses NLP to translate speech or text into data and machines use NLP to talk just like humans.
2) *Computer Vision:* Computer vision helps machines see. AI uses computer vision to understand the digital data. CV is used by the machines to extract data from the videos and images. It automates the task that human eyes does. Computer vision is used by many applications like navigation, google translation, facial recognition apps etc.
3) *Statistical Data:* AI analyses data of multiple kinds. Using statistical data AI helps in predicting results on the basis of test data sets and it also helps to play games linkehumans play.

V. APPLICATIONS OF AI IN INDUSTRIES

1) *Agriculture:* AI is making farmers lives easier by revolutionizing agriculture sector. Now a days farmers are replacing laborious and time consuming activities using AI powered automation. AI analyze massive amount of data nad observe past trends to do prediction for better field productivity.
2) *Healthcare:* AI is being used as a life saver in many critical fields now and it proved itself in pandemic time of COVID-19 as well. Doctors used AI to predict best decisions and treatments for diseases like cancer, tumor. It helps in detecting exact size and location of tumor. AI needs a less training and once its trained can diagnose diseases more efficiently.
3) *Transportation:* Self driving cars and automation systems are the best assets added to automobile sector by AI. AI robots has smartly automated many processes in manufacturing automobiles. It assures us with better, safe and time bound services.
4) *Private Sector:* AI is getting incorporated into HR, IT sector, research,elearning, documentation etc. For recruitment, counseling, documentation purpose machines are doing their smart work. Many processes being automated by moving from manual to excel to google sheets. Recently chatbots are also in trend to give automatic replies to customers.
5) *Government Sector:* AI is not just limited to private sectors, government is also using it for responding to public grievances and raising tickets through chatbots. It is also used to direct requests to the appropriate departments.
6) *Art:* AIis being used by many artists as well. AI can create music on its own. Many AI-powered tools are used to create commercial art. It can be used to automate repetitve tasks of an artist for actual creativity.

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VI. CONCLUSION

AI holds the key to unlocking a magnificent future which is driven by data and computers that understand our world. AI has the potential to transform all sectors. Ai is trying to make computers think and act like human. AI is at the centre of making new enterprises to build intelligent computational models. The digital revolution has already changed how people live, think and communicate but some technologies like AI has the potential to help million of people live happier, healthier and more productive lives. AI is an emerging issue which directly interface between humans and machines, it is also designed to learn from experiences.

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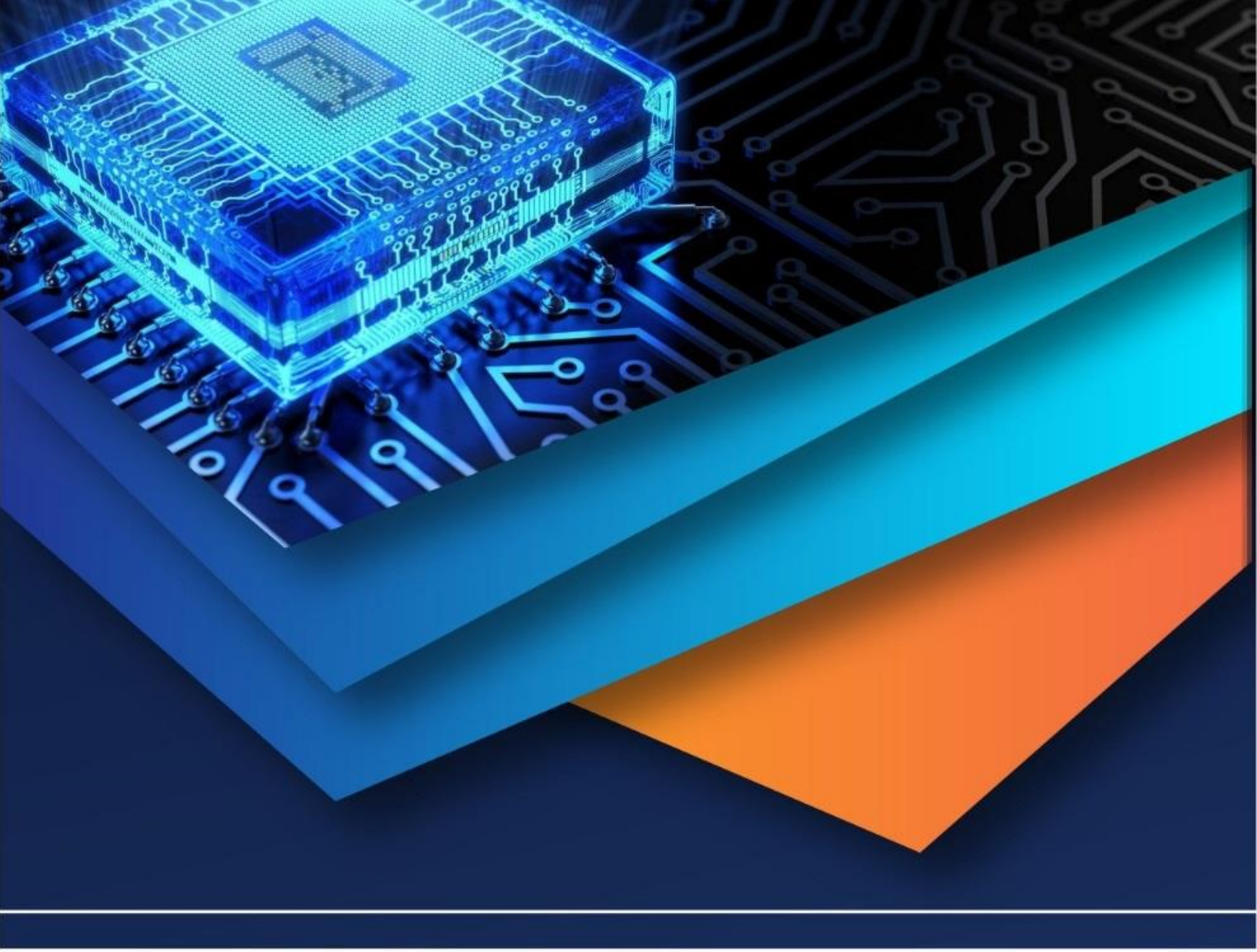

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