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Need to learn Artificial intelligence for Next Generation

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Abstract: *It is pertinent to note that, Artificial Intelligence sheds new light of directions on scientific and logical approach towards learning and development of student which explores the fundamental and traditional ways and approach as well as practical impact of Artificial Intelligence in the advancement information technology in last few years. To design and handle the advance web products, systems, services and activities, higher educational institutes must include artificial intelligence as a subject in curriculum to create competitive next generation in the market. Artificial intelligence aimed at producing theories and technologies that will enable us to optimally utilize the networks as offered by the web infrastructure.*

Key Words: *Artificial Intelligence, Education, Web Network, Learning.*

I. INTRODUCTION

A significant change in the development of user network and business around the world, mostly uses the online mode, this revolutionized the concept of business is the most effective in today's trade structure. Above technological advancements made huge impact on syllabus and curriculum of many professional courses in Higher Education. The rapid increase of web connectivity network and its users the online information data astronomically explodes. In order to understand the online users and future consumers, designers and developers need to have knowledge of its behavioral patterns, likings and user trends; this could all be easily accessible and identify with the knowledge of artificial intelligence. Even to live with such a technological advancement, one needs to take benefit from the technology and intelligence available though the global network of web. In recent years we all have witnessed the fast development as well as of many technologies; like

- I. Highly developed communication through social networking sites and Internet level communication – As per the study 65% percent of world population daily use web network for their day to day routine work as well as to communicate with each other. Artificial intelligence techniques includes patterns which build upon the data of user surfing and preferences. This techniques also used for potential existence of market for product as well as resolve issues which will be occur in future. But to analyses and development of these patterns need to learn and understand Artificial intelligence thoroughly. The Artificial intelligence can create the behavior of adaptive learning on observations of users surfing and choices/ preferences.
- II. Standards to develop of visual contents/ product interfaces/ Marketing content – Today, online modes on internet networking forum is mainly considered as the casket of human reactions, in general. To develop adaptive crossing language processing, personalized multimedia representation and multimodal data processing to develop intelligent platform for above mentioned visual content/interface creation.
- III. Machine learning and Robotics - Due to introduction of machine learning and robotics, which developed through understandable semantic programming language with the help of Artificial intelligence. In the Artificial intelligence techniques we can analyses searching, classification, and filtering, managing, mining and discoverable data on the Internet network.

IV. The world of Applications: Social Networking and User Tools – The Internet has given the revolution of establishment social network that binds the communities of local social , cultural, traders and organizational communities of the people to information exchange with common interest. The app in the other hand are functional on web as well as mobile which benefits the user to access remotely from anywhere, which indirectly gives unique information of users reactions, preferences and apprehensions of certain product, process or people very easily under the one roof platform. They study of these concepts is very necessary to the students learning the professional courses; furthermore due to Artificial intelligence in these apps and social networking sites the visual contents and functionalities are not only accessible from stationary platform but anywhere remotely on mobiles. Higher educational students need to adopt and understand the these artificial intelligence techniques on various wireless devices which used to retrieve through surveys and data of user interest by inferring from user actions on applications and social networking sites.

II. RESEARCH OBJECTIVE

The aim of this study is to give new perspective on the future perspective and importance of Artificial Intelligence and highlight some of the challenges and initiatives accordingly. And the objectives are to identify the various needs to learn artificial intelligence application in India.

III. LITERATURE REVIEW

Artificial intelligence is the study how to make computers do things, which at the moment, people do better [2] Artificial Intelligence in simply manner, is the capability of any machine to impersonate a human intelligent behavior while completing the given procedure.

Definitions: **Roger C. Schank**, in a 1987 paper laid down five attributes one would expect an intelligent entity to have when we think of Artificial intelligence in any machine: (1) Communication, (2) Internal knowledge, (3) External knowledge, (4) Goal-driven behavior, and (5) Creativity. [4]

In Artificial Intelligence: A Modern Approach, **Stuart Russell and Peter Norvig** defined AI as the designing and building of intelligent agents that receive percepts from the environment and take actions that affect that environment. It is significantly to note that, Artificial intelligence system bring together all related fields like speech processing, understanding of the programming language, logical interpretations, and general awareness by single motive is to reach the conclusion outcome by the use of artificial intelligence programming system.

Marcus Hutter (ANU) and Shane Legg (Google DeepMind) proposed the following “human-independent” definitions: Intelligence measures an agent’s ability to achieve goals in a wide range of environments. While this invokes a clearer set of variable for regulators, many hurdles still remain. [4]

It is relevant to note that, to learn and understand the AI is very important. As more we try to understand this concept it is observed that AI evolving and the standard for intelligence is set superior.

IV. RESEARCH METHODOLOGY AND ANALYSIS RESULTS

The study needs to be focused on following by the higher education Institutes while incorporating the Artificial intelligence in syllabus and curriculum;

I. Modes and mediums – While learning the Artificial intelligence, Need to understand the regulation of functions in different platforms and framework of related online modes to make result viable on different websites/ applications. In this context, it can also relevant to note that, there are quite application frameworks developed through the artificial intelligence techniques. It is also observed and also necessitates learning the techniques which can nominates automatically to the other services to the functional roles as well as temporal constraints faced by the operational settings of the business.

- II. Evolving – With reference to Artificial intelligence, this is technique which can be evolves with any stream or field or faculty and specialized in performing for certain action/ proposed and preferential data/ certain effects etc. While learning as subject in ever professional courses or faculties, we need to understand this Artificial intelligence can play a role with any services and the process or framework can also be dynamically updated. The measuring the instance of association also can be used as technique to learn and understand the Artificial intelligence techniques.
- III. Dataset – While considering the data set which is collected by using the techniques of artificial intelligence; it is relevant to note that, due to many parameters and the modes it will be seen as crowded population of data set which constantly changing as per the situation and criteria comes into the pictures. This data set is normally reproduced And also in order to become more effective for the respective clients, it is more relevant to design a pattern which will create relevant data. Or it will collect irrelevant and ineffective data in the end.
- IV. Life cycle – Artificial intelligence frame work or structure is uniquely created through a request and action programmed and their association with some elements in due course reaction by one its actions aggregated. It is like Ant colony, which have its own behavioral psychology to act on substances on its own and creates own set of reactions.
- V. Semantics – It is significant to note that, while understanding the techniques it is reflectively best by understanding the granularities of their corresponding action and the course of their ontology definitions.
- VI. Source of Knowledge – Beside semantic knowledge extracted, it is also essential to incorporate a dynamically created source of knowledge that deals with the relationship between concept and the temporary constrain information in planning and execution of particular respective services. It allows students to self resolve their conflicts of programming's difficulties or framework disabilities.
- VII. Planning – While learning artificial intelligence and relate with your subject it is significant to note that, while targeting to find any function which is demanded by the client or the recipient. There is constraint that, many times it is demanded/ requested simultaneously while one set of request is already in process, so it created two sub targets. In order to have an access to the recommended function the artificial intelligence ontology alone will be sufficient.

While practically learning there is constraint to incorporate all the data regarding certain knowledge/ information about the situations and reactions/ user preferences/ choices in any manner/ framework /techniques. It is very much unlikely to collect all knowledge from various platforms from global to the local frameworks, and create a framework to examine these dataset and create algorithm accordingly every time. Therefore, It is expected to use of Artificial intelligence analytical algorithms which develops on distributed information in different segments and it can be integrated in its own cluster of specialized intelligent applications.

Because of the globalization and heavy use of internet as mentioned above there is serious challenge of identification of information for the specific situation, this can be solved by teaching Artificial intelligence with respect to the fields and faculties student are learning. A challenging situation for any manufacturing to the management situation is globally distributed unidentified and vague data sets on websites, semantic social networks. In every criteria incorporating and adapting this with locally operational knowledge / database in any enterprise is very much possible with the thorough knowledge of Artificial intelligence along with traditional curriculum.

Artificial language can develop algorithm which is based upon distributed inference of logical reasoning ability, that can automatically transformed from the semantic information/knowledge data with locally operational knowledge and find a feasible way to work with this algorithm is to use existing logic together with dynamic collection of data and knowledge.

By using this approach, the students can combine global information sources with the local process and knowledge in an enterprise for decision making and business intelligence.

Ontology is the basis of for designing and implementing the semantic web for web intelligence. It plays a crucial role in enabling web based knowledge processing and management, such as web community communication, semantic based agent communication, knowledge based web retrieval, web content understanding and web community discovery.

Although ontology engineering has been studied over the last decade, there is a still a demand for some automatic methods in comprehensive ontology construction and learning. The tedious, cumbersome task of existing manual ontology construction can easily became a bottleneck in the development of semantic based web intelligence.

V. CONCLUSION

In the beginning, I have explained the need and perspective to learn Artificial intelligence. The Internet connectivity and network will be treating as an information infrastructure; will remain to create a strong impact in the future by offering world-wide presence and connectivity. The major challenge of the educational institutions regarding their teaching methods and curriculum in the next decade will be focusing on how we can intelligently make the best use of widely available Internet connectivity and information available. The Artificial intelligence to be incorporated to be develop new syllabus will be precisely determined by namely;

1. Information empowerment through analysis of various different opinion/ preferences/ and opinions through the algorithm
2. Knowledge sharing is easily available for the decision making.
3. Virtual social clustering of different regional/ cultural/ traditional people under one roof
4. Service improvement due to the knowledge
5. Practical approach towards the learning curriculum of a professional course.

It has been concluded by the study that, in the research and educational field, shift of the paradigm happens because of the inclusion of notion towards knowledge of Artificial intelligence. Developing this kind of understanding it will be seen that the focus on Modes and mediums, evolving AI techniques, dataset, Machine life cycle, semantics and planning. This eventually helps people to gain wisdom of learning, working, playing, in addition to information search and knowledge queries.

It is significant to note that, in coming years above mentioned inclusions in Higher education will pave toward the next biggest educational revolution in our country. As well as, it will have significant impact on the quality skills of manufacturing, designing as well as human resources.

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