Influence Of Artificial Intelligence In Teaching Learning Among The Graduate Students

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Abstract

In the contemporary world, Technology has occupied a major part in the human generation with lots of expiates even though all the field become under this. While society has been defined that the personality traits of human psychology, but it leads with the creativity and intelligence. A very simple human behaviour is ascribed to intelligence and it cannot be characterized by just an unique trait, but it is the amalgamation of several diverse traits and capabilities. Education is the process of growth and development among the generation particularly the university graduates, they are the source of intellectual progress in the world. The current world is leading with science and technology in higher education, but the Artificial Intelligence (AI) is solving the challenges and the future of all. There are a few programs and a few specific tasks by computers can be performed with the level of human experts with AI. Based on the current and contemporary situation, where AI come to stand on online learning will depend on the future in education, maybe it will be a whole society of robots in teaching and learning.

Keywords: Artificial intelligence (AI), Higher Education, Graduate Students, Digitalize Learning & Teaching.

Introduction

The present world is well-known as full of competitive life to survive for a better future with hope and confidence. Technology has occupied the human generation with lots of expiates even though all the field become under this. While society has been defined that the personality traits of human psychology, but it leads with the creativity and intelligence. Every human being influences with their intelligence and their potentiality which perform with their
knowledge to fill the aims and goals in the universe. Education is the process of growth and development among the generation, particularly the university education gives lots of improvement in their psychosocial life (Bayne, S. 2015). Every graduate is the source of intellectual progress in the world. The present world is leading with science and technology in higher education and it faces a lot of challenges with techno life of all. But the artificial intelligence (AI) is solving the challenges and the future of all.

Related works

Olaf Zaacki-Rihter, Victoria I. Marin Melissa Bond and Franziska Gouverneur (2019) in their research titled ‘Systematic review of research on artificial intelligence applications in higher education – where are the educators?’, stated that the application of the AI in higher education has been used globally for more than three decades. But in view of theoretical pedagogical perspective, the teachers and students are not fully aware of its actual impact and the challenges and risks of AI in higher education on the emerging educational technology.

In the research article, ‘Exploring the impact of artificial intelligence on teaching and learning in higher education’ by Stefan A. D. Popenici and Sharon Kerr (2017) explores the phenomena of the AI in higher education and its existence and emergence of vivid usage in the process of learning in higher education. While the future educational scenario is analyzed, the article emphasizes that AI in higher education is inevitable as the technologies for teaching and learning processes, Class Management, Curriculum, Students’ report and even the administration will be scrutinized by the AI.

According to Maud Chassignola, Aleksandr Khoroshavin, Alexandra Klimova & Anna Bilyatdinova (2018) in their article, ‘Artificial Intelligence trends in education: a narrative overview’, in day to day life digital technology has become the core of everyday life. They also predict that the impact of AI in higher education especially in the administration and management of the educational system will be enhanced by innovative methods in teaching and learning. Reshaping the educational landscape is possible only by the AI.

Tuomi and Ilkka (2018) in their report ‘The Impact of Artificial Intelligence on Learning, Teaching, and Education: Policies for the Future’ submitted to JRC Science for Policy Report by European Commission, iterates that not only learning, teaching, and education but also policymaking in the educational system depends on AI in the evolving digital world. To provide state of the art in education, the use of AI provides the conceptual foundation and the forward-looking activities.

Artificial intelligence (AI)

A highly sophisticated computer or highly configured computer measuring robot’s competence to undertake responsibilities normally linked with the intelligent existences. The term Artificial Intelligence is a habitual function towards the evolving systems that endows with the human’s intellectual process of characters likeability to generalize, to discover reasons, to absorb from the past knowledge, or to discern the meaning (Maderer, J. 2016). It has been revealed that from the beginning of the emergence of the digital computer in the 1940s, computers can be encoded to accomplish any multifaceted tasks such as playing games like chess with the expertise to discover and find out the proofs for the mathematical theorems (Mason, J, Khan, K, Smith, S 2016). Even though the capacity of the computers can be much
advanced by increasing processor speed and capacity of its memory, there are a few that cannot match with human flexibility over certain domains and in certain everyday tasks that need a simple knowledge. At the same time, there are a few programs and a few specific tasks by computers can be performed with the level of human experts with the Artificial Intelligence which made the human depends on them in certain day to day activities like a computer search engine, medical diagnosis, and handwriting and voice recognition.

What Is Intelligence?
There is more complex behaviour of insects or animals is not considered as an intelligence ever, but a very simple human behaviour is attributed to cleverness or intelligence. For example, the small insect wasp’s instinctual behaviour of storing the food in its burrow can be considered as intelligence. The female wasp always gathers its food and stores inside her burrow. While entering her burrow she does not enter directly into the storage room rather she keeps it in the entrance and before moving the food into storage checks for the intruders inside her burrow (Baker, R. S. 2016). She keeps on doing the same before moving the food inside her burrow. But this intelligence noticeably is absent in the case of the similar insect Sphex. According to Psychologists, human behaviour is ascribed to intelligence and it cannot be characterized by just an unique trait, but it is the amalgamation of several diverse traits and capabilities. Most of the researches in AI have concentrated predominantly on the subsequent mechanisms of cleverness or intelligence: critical thinking, using language, discernment or perception, learning, and reasoning.

Fundamental Elements and Technology

Learning
In a general view, there are umpteen numbers of learning processes, especially to Artificial Intelligence. Trial and error learning method is considered as the best and simplest method of learning. If the computer programming for the chess game is analyzed, it is evident that each move has random solutions by the computer. Every time when the game is played the computer stores the new moves and solution with the position and when it encounters the same situation, the stored solution and position will be recalled by the computer. This way of learning is known as rote learning, which is the easiest way of memorizing simple and individual procedures. Implementation of generalization is a challenging task. Here generalization means that solution to a newly encountered problem with the application of experience (Bartolomé, A., Castañeda, L., & Adell, J. 2018). To make it clear if a program is designed to learn the Past Tense of regular form in the English language, the rote learning cannot answer ‘climbed’ as the past form of the verb climb, unless a program has been already designed to simplify the ‘add ed’ rule with the regular form of the verbs.

Reasoning
In the general phenomena, finding out the appropriate solution to a given situation is reasoning. There are two reasoning: Deductive and Inductive. The deductive reasoning definitely produces the conclusion whereas the inductive reasoning fails to produce the conclusion
In inductive reasoning, the given pieces of evidence lend support to find out the conclusion. For example, from the following, it is understood the Deductive reasoning,  

“Mohammed must be in either the library or the classroom. He is not in the classroom; therefore, he is in the library.”

Inductive reasoning is used commonly in researches, especially in data collection and analysis. Here the conclusion is predicted from the analysis of the data collected. Deductive reasoning is used in numerical and logical analysis, where the construction of the undeniable critical theorems is based on the basic set of rules (Mason, J, Khan, K, Smith, S 2016). While digital programming, to draw a conclusion it is mostly succeeded by using deductive reasoning. But the biggest problem in Artificial Intelligence is that it has to produce not an only proper conclusion for the specific task or situation but pertinent conclusions to the specific task or situation.

**Critical Thinking**

Problem solving, particularly in fake awareness, may be depicted as an exact interest through an extent of expected exercises to show up at some predefined target or game plan. Basic reasoning methodologies segment into explicit explanation and generally helpful. A remarkable explanation method is redone for a particular issue and every now and again abuses very certain structures of the circumstances in which the issue is entrenched. Then again, a comprehensively valuable technique is appropriate to a widespread grouping of issues. One generally helpful system used in Artificial knowledge is inferred close examination—a small bit at a time, or dependable, an abatement of the qualification among the contemporary status and the preceding goal line. The designed unique program chooses exercises from the means from a summary—by the features from a vibrant machine like robot, which may include MOVE BACK, MOVE FORWARD, MOVE RIGHT, MOVE LEFT, PICKUP, and PUTD OWN—until the goal line is grasped. Various issues have been being perceived by counterfeit intellectual prowess programs (Mitcham, C 2005). A couple of models are ‘outcome of the triumphant move or gathering of moves in a pre-packaged game, inventing mathematical checks, and controlling "virtual items" in a PC created world.’

**Perception**

While discussing discernment or perception, the earth is separated by strategies for numerous unmistakable structures, certified or counterfeit, and the scene falls apart upon free things in several spatial connotations. The assessment ‘is caught by the way that a thing may appear to be assorted depending upon the edge from which it is seen, the course and intensity of light in the scene, and how much the article shows up diversely corresponding to the incorporating field’ (Chen, J.- F., and Do, Q. H. 2014). At present, fake perception is enough all-around bleeding edge to engage optical sensors to recognize persons individually, self-directed automobiles to drive at modest rates on the Open Street, and machines to meander over structures gathering void soda containers. Likely ‘the soonest structure to organize insight and movement was FREDDY, under the heading of Donald Michie at the College of Edinburgh, Scotland, during the years 1966 to 1973 created a fixed robot with a pincer hand and moving
TV eye. FREDDY was equipped with picking up the choices to see an arrangement of articles and assembling of fundamental artifacts could be advised, for instance, a miniature vehicle, from a self-assertive pile of units.’ (Chen, J.- F., and Do, Q. H. 2014)

**Language**

The definition of a language is that a sequence of signs and actions consuming significance through the show. Here it means that a language needs not to be bound towards the communicated words and signs. For example, Traffic signs structure a smaller than expected language, it is including show that implies "danger ahead" in specific nations. It is specific of dialects that phonetic units have essentiality by the show, and etymological significance is out and out various dependent on what is called typical importance, exemplified in explanations, for instance, "Those mists mean downpour" and "It pours cats and dogs infers it is raining heavily." A significant quality of undeniable human dialects—instead of "bird calls and traffic signs"—is their gainfulness. An advantage of a language is that it can detail an unfathomable variability of constructing the sentences.

Generating a program in the PC is decently easier that appear, by all accounts, to be proficient, in really constrained settings, to reply simply like questions and declarations in a human language. Yet any of these undertakings accurately understands language, they might, over a critical level, arrive to a decision at where a language is required, is hazy from a common or ordinary life human. ‘What, by then, is related with ensured cognizance, if even a PC that uses dialectal like a neighborhood human talker isn’t perceived to get it? It is inferred that there is no overall settled over a response to any inconvenient request’ (DFKI 2015). According to one speculation, neither nor not one holds depend on one's lead just like one's past: in other hand which is said to recognize, one probably insightful the linguistic and that have been set up by techniques for association with other language customers to have one's spot in the etymological organization.

**Methods and Goals in AI**

**Symbolic vs. connectionist approaches**

Artificial Intelligence reasoning examination follows two points of interest and fairly battling, procedures, the meaningful (or "top-down") approach, and the connectionist (or "base up") approach. It is evident that the top-down technique attempts by recreating information to inspect wisdom self-sufficient of the natural structure of the cerebrum, with respect to the treatment of pictures—whence the agent mark. The base-up approach, of course, remembers making fake neural frameworks for pantomime of the psyche's construction—from the source of the connectionist mark.

In outlining the distinction between the two methodologies, think about the undertaking of structuring a framework, furnished with a photosensitive scanner which perceives the letters exactly same to the letters in order. A base-up approach ordinarily includes preparing a fake neural system by introducing letters to it individually, step by step improving execution by "tuning" the system. (Here, it is understood that tuning alters the receptiveness of various nervous system trails to various improvements.) Conversely, a top-down methodology
commonly includes composing a PC program that contrasts each letter and mathematical depictions (Chen, J.-F., & Do, Q. H. 2014). Basically, the principle of the base up approach is neural exercises, while the principle of top-down methodology is emblematic portrayals.

According to Edward Thorndike, a well-known psychologist from New York City and the Professor at Columbia University, ‘InThe Fundamentals of Learning (1932), first recommended that learning of human comprises of nearly ambiguous assets of associations among neurons in the cerebrum. In The Organization of Behavior (1949), Donald Hebb, a psychologist at McGill University, Montreal, Canada, suggested that adapting explicitly contains fortifying certain examples of neural action by expanding the likelihood (weight) of incited neuron terminating between the related associations. The idea of weighted associations is portrayed in a later segment, Connectionism.

In 1957 two energetic supporters of representative Artificial Intelligence—Allen Newell, an analyst at the RAND Company, Santa Clause Monica, California, and Herbert Simon, a clinician and PC researcher at Carnegie Mellon College, Pittsburgh, Pennsylvania—summarized the top-down methodology in what they called the physical image framework speculation (González, VM, Robbes, R, Góngora, G, Medina, S 2015). This speculation expresses that preparing structures of images is adequate, on a basic level, to deliver Artificial consciousness in a computerized PC and that, also, human insight is the consequence of similar sort of representative controls.

During the 1950s and '60s the top-down and base up approaches were sought after all the while, and both accomplished vital, whenever restricted, results. During the 1970s, notwithstanding, base up computer-based intelligence was dismissed, and it was not until the 1980s that this methodology again got noticeable. These days the two methodologies are followed, and both are recognized as confronting troubles. Emblematic strategies work in streamlined domains yet regularly separate when gone up against with this present reality; then, base up scientists have been not able to duplicate even the least complex living things’ sensory systems. Caenorhabditis style, a more-noted worm, is having around three hundred neurons whose example of interconnectedness is completely acknowledged. But, unfortunately even this worm is neglected to emulate by the connectionist models. Obviously, it shows that the neurons of the connectionist hypothesis are unsophisticated misrepresentations of the genuine article.

**Strong AI, applied AI, and cognitive simulation**

Utilizing the strategies delineated above, artificial intelligence research endeavours to arrive at three objectives: solid Artificial intelligence, applied simulated intelligence, or intellectual recreation. Solid simulated intelligence means to fabricate machineries that deliberate. (The term solid artificial intelligence was presented for this class of examination in 1980 by the Berkeley bound logician John Searle a profound researcher from the College of California.) A definitive desire for solid computer-based intelligence is to deliver a machine whose general scholarly capacity is vague from that of an individual (Bostron, N, & Yudkowsky, E 2011). As portrayed earlier in the area, the achievements attained in artificial intelligence, this objective created incredible enthusiasm for the 1950s and '60s, yet such positive thinking has offered a route to a valuation for the outrageous troubles included. Until this point in time,
progress has been pitiful. A few pundits question whether examination will create even a framework with the general scholarly capacity of an insect within a reasonable timeframe. In fact, a few specialists working in simulated intelligence's other two branches see solid Artificial intelligence as not worth seeking after (Bostrom, N. 2006).

Applied Artificial intelligence, otherwise called progressed data handling, plans to deliver monetarily practical "keen" frameworks—for instance, "master" clinical analysis frameworks and stock-exchanging frameworks. Applied simulated intelligence has delighted insignificant achievement, as portrayed in the area Master frameworks. In the intellectual reenactment, PCs are utilized to test hypotheses about how the human psyche functions—for instance, speculations about how individuals perceive faces or review recollections. Intellectual reenactment is now an incredible asset in both neuroscience and psychological brain science (Luckin, R. 2017).

AI in Pandemic
As schools and colleges have covered their physical grounds notwithstanding the spread of COVID-19, they have moved their courses to distant and online configurations in quick style. Also, that is provoked numerous to consider what a definitive effect this timeframe may have on internet learning in advanced education. In view of the current circumstance, where Artificial Intelligences come to remain on internet learning will rely upon where they sit presently. That is, there will be both positive and negative effects on the condition of web-based learning in advanced education.

The worldwide lockdown of the instructive organizations will cause a significant break in understudies' learning, interruptions in inside evaluations, the retraction of the public appraisals for capabilities or their substitution by a mediocre other option. At this unavoidable situation, the UNESCO has alarmed the global educational system and has published ten recommendations to overcome the discontinuation of the educational process (Tuomi, Ilkka 2018). If the recommendations are analyzed, it is clear that the implementation of the digitalized learning and teaching process is the only solution recommended by the UNESCO. Without AI, implementation of the digitalized educational system is a real phenomenon.

The Impact of AI on Education
Artificial Intelligence can be characterized as the capacity of PC frameworks to perform undertakings and exercises that generally must be cultivated utilizing human insight. In the realm of training, this innovation is altering schools and study halls, making teachers occupations much simpler. Indeed, numerous teachers, even with the optimistic rewards of AI, are discerning about what influences this innovation will have on the training field. Will it help close the accomplishment holes or democratize instruction? Or then again will it render instructors completely futile, putting a huge number of educators unemployed, and obliterate the honorable calling? Not to stress, instructors; the robots aren't seeking your activity, they are only here to make it significantly simpler. Need to get familiar with the impacts of AI on training? Try not to stress.

Development has accepted a fundamental part in the progression of guidance in late decades. While an incredible aspect of the guidance structure in spite of everything relies upon
a central instructive program and from time to time confined teacher resources, advancement is allowing a degree of flexibility and customization that was at no other time possible (Ben-Zvi, T. 2012). Additionally, no spot is that detachment clearer than in the usage of AI in guidance. Instructors who embrace a shared relationship with AI innovation intended for training are finding a hearty, receptive stage that can react to understudy needs dependent on execution, however enthusiastic state, certainty, and considerably more. The capacity to quantify and respond to information that an educator could never have the transfer speed to do alone opens a domain of additional opportunities that can assist understudies with arriving at their maximum capacity.

**Traditional Education Vs Education with AI**

While few would contend that educators are not an indispensable, indispensable part of a fruitful training, artificial brainpower and AI are beginning to have sway instructors can depend on to intensify their effect. Artificial intelligence is as of now beginning to affect how youngsters can take in and from where. Utilizing interpretation instruments controlled by AI, understudies can partake in worldwide study halls for which AI effectively deciphers materials continuously. This tends to numerous instructive difficulties around sickness, area, or physical threat in certain districts of the world that are related to going to class.

Computer-based intelligence is likewise helping instructors tackle the developing weight of authoritative work. Instructors go through 3-5 hours out of every day reviewing papers and tests, planning exercise designs, and finishing regulatory work outside of the study hall, and an extra 3 a month in the late spring. Machines are becoming progressively advanced at assessing composed answers in tests to decide whether they precisely tended to the inquiries posed and are enabling instructors to manufacture more configurable exercise plans in less time (Luckin, R. 2017). These equivalent apparatuses can assess the consequences of those tests and exercises to discover holes in understudy execution. If understudies reliably miss an inquiry by a huger than normal level of the class, the framework can make proposals for changes to the educational plan and how the exercise is instructed.

**AI Applications Outside of the Classroom**

Notwithstanding homeroom benefits, AI is helping understudies with free examination through more adjustable coaching and considering support applications. Programming is presently ready to go past only recounting realities that should be remembered for government-sanctioned tests and give a cooked encounter that coordinates the level, comfort, and passionate condition of the understudy. Diverse learning styles and outlooks can be considered progressively, improving outcomes and helping understudies be fruitful. Notwithstanding more versatile coaching, a determination of further developed learning openings become accessible (Olaf Zawacki-Richter. et al 2019). Amazing assets that can conform to learning styles, areas, and guide or parent input are being created for individual electronic gadgets, to work both with and notwithstanding the proper materials.

**Instructors and AI Systems**
Instructors will probably never be supplanted by AI frameworks. Indeed, even online courses are vigorously subject to quality and experience on the teacher educating them. In any case, AI is turning into a significant device for instructors in a few different ways. Educators are inclining toward machines to give bits of knowledge on when to make changes in accordance with exercise plans, which understudies need individualized consideration, and to finish managerial assignments quicker. New instruments from organizations like Behavioral Signals can peruse feelings dependent on a kid's voice and caution the instructor if the understudy is glad or disappointed and battling. This innovation gives direct knowledge into the enthusiastic condition of an enormous homeroom of kids. That by itself can assist them with reaching more ideal and precisely when there is a worry (Maud Chassignola et al, 2018). The eventual fate of AI in the instruction field is splendid with many potential applications that will save time for instructors, guarantee understudies get the mediation to uphold they need, and permit understudies to adapt autonomously in a manner that is helpful for how they think. It might assist us with reevaluating and rebuild how we approach necessary instruction in the 21st century in a way that is gainful to all gatherings.

Impact of AI in Teaching and Learning

Artificial brainpower (AI) alludes to the method of recreating the insight abilities of the human cerebrum. It is likewise accepted that AI is an aspect of the Computer Science that manages the plan of wise frameworks, for example, frameworks that display attributes that we partner with insight into human practices. Mariño and Primorac (2016) further talk about the issue by expressing that AI is imagined as an aspect of the Computer Science that gives "an assorted variety of strategies, procedures and devices to make models and take care of issues by reproducing the conduct of the insightful subjects".

From another viewpoint, AI can be perceived, as depicted by Herrera and Muñoz (2017), as a science arranged towards the quest for a significant comprehension of insight, considering its delimitation, its prospects and portraying it as a test of tremendous multifaceted nature. So as to go further into the AI setting, we should return to its beginnings. This implies we should allude to Alan Turing as one of the pioneers in this viewpoint when he planned the popular "Turing machine". Through an information preparing plan in a double framework, it was equipped for handling any conceivable sort of count. Toward an amazing finish, he tested himself by creating what was classified "the Turing machine test" (Mitcham, C 2005). Through this test, it was feasible for the machine to have the conceivable deduction attribution under one condition: that the onlooker could not obviously recognize his direct from that of a person, for example, such mimetic freedom. Consequently, the understood and unequivocal worldview of the AI is built up and it merits featuring the extraordinary pioneers of this part of the information from its beginning; pioneers, for example, McCulloch, Turing, von Neumann, Wiener and Pitts, Gardner, among others. Most of the graduates are learning with their AI capacity and progress which influenced their urgency and interest to face the life challenges in the techno world. This world has led them into the process of mechanical intellectual capacity that is AI in their teaching and learning activity (Maderer, J. 2016). Two different ways of understanding AI were made dependent on the investigation of these propositions: (1) a powerless AI, which is just confined to the utilization of PCs to consider the psychological
prospects of the individual; and (2) a solid AI, which is situated to connecting the AI and human insight, and looking for approaches to interface them significantly more.

Conclusion
The generational challenging problem now is further marked than interminably in advance in approach Technology with intellectual behaviour. The common gaps drive further than the sequential scale because it has a more sweeping personality that goes beyond those abstract confines. The gap is in technology, virtual atrocity, digital understanding, and it is new to social progress. At a similar interval, this spaces the societies from the prodigious step of the new technologies based on AI, which have constituted to generation after generation. In this regard the new era of graduate students who are characterized as "digital natives", who are advantaged persons who exist with shifting technologies, Nanotechnological formats and new communicating stands in the global technocommunity. Many of the graduate students were continuous proximity to these technologies, progression and are more associated with a digital language. The Artificial intelligence will exhibit their superior adaptability with esteem to the globalized technoworld, as well as the entree to better and well tools of Nanotechnology. Artificial Intelligence and the technology are one side of the life that permanently interest and disclosure us with the new ideas, topics, innovations, products which influence graduates learning (Bayne, S. 2015). AI is still not executed as intelligent robots, however, there are many significant efforts to reach the level and to compete in the market, like sometimes the robots that they show on TV. At the end, who knows what the AI can do for us in the future in education, maybe it will be a whole society of robots in teaching and learning.

References


Biography:

Dr. Shareef holds a BSc in Physics from Mousel University, Iraq in 1990. He received an MSc in Digital Communications Networks in 2005 from London Metropolitan University-UK with distinction. He has worked as an expert in the ICT Centre at the Ministry of Higher Education and Scientific Research in Kurdistan Region of Iraq in 2007. He joined the School of Architecture, Computing and Engineering at the University of East London-UK as a
PhD student in April 2009. He completed his PhD successfully in 2012. In the meantime, he worked as an hourly paid lecturer at the University of East London-UK. In addition, he has published various papers along with participation in reviewing various conference papers, and international journals. He is also a member of many professional bodies in his area of specialisation. He became a Fellow of Higher Education Academy (FHEA) in the UK in 2011. He worked as a head of software and Informatics Engineering Department since 2012-2017 in the college of engineering at Salahaddin University-Erbil-Iraq. Currently working as a dean of the College of Education and Languages at Lebanese French University-Erbil-Kurdistan-Iraq, along with the director of Postgraduate Studies.

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