

The Way to Processing Artificial Intelligence for Language Teaching and Learning La façon de traiter l'intelligence artificielle pour l'enseignement et l'apprentissage des langues

Amine CHAAMI 
University Center of Aflou / ALGERIA
a.chaami@cu-aflou.edu.dz

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Abstract:

Through the present research paper, we will present personalized learning paths, feedback mechanisms and innovative teaching methods, and the way by which Artificial Intelligence matches and meets miscellaneous learning needs of the learning process so that no one is left behind. Therefore, it is a must for teachers, educators to foster an expressive and comprehensive understanding of the relationship between artificial intelligence (AI) and education. The present paper attempts to meet the request of matching Artificial Intelligence with education, and how. Though AI in education is still in development; AI tailors learning to the needs of each student, as technology adapts to different learning practices and preferences. To make the way to that end, the article uses a psychoanalytic approach to reach the research findings.

Keywords: Artificial Intelligence- education - AI – technology-learning-process

Résumé :

À travers le présent document de recherche, nous présenterons des parcours d'apprentissage personnalisés, des mécanismes de rétroaction et des méthodes d'enseignement innovantes, ainsi que la manière dont l'Intelligence artificielle correspond et répond aux divers besoins d'apprentissage du processus d'apprentissage afin que personne ne soit laissé pour compte. Par conséquent, il est indispensable pour les enseignants et les éducateurs de favoriser une compréhension expressive et complète de la relation entre l'intelligence artificielle (IA) et l'éducation. Le présent article tente de répondre à la demande d'associer l'intelligence artificielle à l'éducation, et comment, bien que l'IA dans l'éducation soit encore en développement, l'IA adapte l'apprentissage aux besoins de chaque élève, à mesure que la technologie s'adapte aux différentes pratiques et préférences d'apprentissage. Enfin, notre article utilise une approche psychanalytique pour atteindre les résultats de la recherche.

Mots-clés: Intelligence artificielle-éducation-IA- technologie -apprentissage-processus

* Corresponding author: Amine CHAAMI

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Introduction

Artificial intelligence is an appellation for and in the opposition of human intelligence. It is the way of solving this problem or resolving that problem with the assistance of machines by exacting human like manner. It is permutation of two terms artificial and intelligence. It is all together by the ability that are found and founded in robots, machine. Thereafter, Artificial intelligence will influence the future. There is no doubt that artificial intelligence will influence all the walks of life. It will be the driving force behindhand accessibility in education and consequently removing the obstacles to give the young people across the globe high-quality educational opportunities. The following are important factors and methods to fulfill this goal: AI is used to respond to cultural differences by assisting in the process of localization of instructional materials as well as its translation. To offer the learners a rich, multi-layered export experience, and to make it more enjoyable and easy-to-grasp for them, the content of our promotional activities should incorporate elements featuring nuances of culture, allusions, and instances. Bring AI-based training on the table of education with the basic of the coming times. Likewise, it affirms that the information is modifiable and can be devoted to different learning orientations. Currently, AI technologies should be developed so that they can not only work on different devices such as personal computers and smartphones but also on a wider variety of different devices that the learner may own.

Thereby, the forthcoming future of education is anticipated to undergo AI certified revolution, and as a result to a satisfactory answers to perpetual concerns, in the context, this necessitates the need to perceive the revolution either for good or bad. Partnering AI with education in an effort to advance the entire ship rather than just the ankle could comprise things such as data privacy, ethical issues and digital gap. Digital education is two-faced coin that sits in the middle of AI age, and definitely a mixed; good and bad. AI partaking the ability to identify exactly by what method each person is learning as well as what unique tastes in a preferred way is taught provides an individualized learning opportunity for the students, therefore he or she can utilize all his or her talents. Consequently, a difference of place locks the humans in an accommodating situation. Artificial Intelligence has created multiple methods to teach students in an informative way. The major educational approaches are shaping new directions through implementation of algorithms that are subsequently creating more practical and educational materials that are networking with the students.

1. AI and Personalizing Learning

AI is a technology that operates in many education settings and it can also provide an extra assistance to instructors and students. Conducting a dialogue between researchers, businessmen, policymakers and teachers is of a great service to education. It becomes a prevailing matching set, containing public-human interaction with machines, whose we perhaps had no idea about back then. It addresses the relationship of these strategies to personal learning. Consequently, it enables us to facilitate customization. Individualized learning is one of the education trends at the moment, and this kind of learning involves personalized instruction to suit each student's particular requirements (according to Aleven et al. 2016). All in the inauguration, it was thought that the production of an academic environment built around a single individual's requirements might be the way to make the most of students' potentials (Corno. 2008). Every student in the class takes the same course, is exposed to the same input and usually completes similar work sample assignments,

and he/she gets feedback that is usually similar across the board. The major percentage of them are unconvinced, therefore firsthand harvests are launched to stimulate personalization.

The diffusion of interactive technologies in schools has been slow, despite that there has a lot import content that can be perceived to students in different ways such as computer assisted instruction, adaptive learning technologies, intelligent tutoring systems. These systems have been designed to customize instruction for individual students, but many challenges are involved with their use (Conati, 2009; Yang, 2010). On the other hand, the last five years three breakthrough inventions whose aim were to address students' individual differences in learning boosted this whole level of personalized learning. Students devouring a computer is the most basic precondition for this technology to be included in the daily classroom activities rather than students being taught the technology in specific lessons. Therefore, there has been a major upgrade to the methods of data exploitation to stimulate learning in the emerging sector learning data analysis which has been recently established. This illustrates that not only learning technologies but also teachers and pupils have the chance to apply data when it is given to them on a rather firsthand basis. Supplementary along that, students have a chance to adapt analysis-based training supplement and smart learning aids, which are new products on the augmentation and will be implemented next to educational practicalities.

Conceivably, one of the main things in modern learning is when they cover the subject matter by drawing on various forms of prior knowledge. It is the case where a researcher conscripts the use of machines to transmit out experiments on sundry subjects, the exploration of all issues and eventually coming up with some solutions to the explored teething troubles. Even with the myriad of topographies of training shoe that are associated with disposition, motivation, metacognition, and self-regulation, customized ones based on the specific needs of learners have to be supplementary to other properly implied ones that should be selected according to predicted needs of students.

AI's capability of personalized learning will be exemplified in detail. The model of automation which the automotive sector develops in its field will be the base to illustrate a model of education. Likewise, this design will not only oblige the students to change their role, but they will also be facing different challenge as the students play a role as teacher and technology by keeping the balance in their interdisciplinary relation that is a hybrid of human and AI. In essence, personalized learning is the hot new idea in education reform, but some versions could get a little too personal. (Greene, 2018) and it points out the interaction of human and machine by means of their main end which is the manufacture of the system by which functions without a human participation.

The frame, hence, presents the current success landings in the areas of AI and personalised learning, but, at the same time, provides a platform for the discussion on which future technologies in AI and education which will be the likely intersections. In this respect, through the willing, an exercise of such importance was begun, which aimed to predict actions and outline the phases of educational personalization, involving roles of students, teachers, and AI participants. The major approach that it is recycled for that matter is through the students' knowledge altitudes and abilities while determining tutoring and teaching. Henceforward, we, in the present situation, have to channel into what might be rather unavoidable than those things which could be said to be optional in the course on understanding, diagnosing, and applying of these strategies. In particular, there are exciting new opportunities available for these new machine learning and AI toolsets and completely control the stacks as full-stack data scientists. They will be able to perform the entire life

cycle of data science -- from problem definition to data collection, to model training, to production deployment. (Gift, N., Jul. 2018).

Most of the educative research performed in this subject concentrated on the description and tracking of the elements of the network of the students' knowledge and the development of these elements over time. This research tries to ground these theory accomplishments in practical step-by-step methods of instruction. An example can be that the trainer can communicate to the learners the review they made in the past and across the way by providing tips on how they can manage to fulfill the task that are prescribed to them.

What it carbuncles it down to is that beforehand teachers would use a very rigid approach of assessment which mainly involved testing a student on what they knew before anything was taught to them about something new. It clenches accurately in case of the teaching strategies and techniques which are used for the promotion of knowledge of the students or the resolution of the knowledge gaps they face. The facts also show that programs of artificial intelligence can support students learn better when problems, which are centered on the pre-defined lessons for students as well as a formative assessment of their answers are given to them to answer. In the first place the modules of the program are too generalized, respectively. Although it is simple, modern and progressive, the subject is not good enough, and this turns to be an obstacle for the ideal incorporation of teaching.

Technological study can be an avenue that enables the student to equate the amount of time allocated to one issue with a comprehension level. Distinguishing this approach from the more qualitatively one-to-one works in mathgarden adaptive learning technology, which individually rests upon the current level of the student's skills and chooses an appropriate next mathematical problem to be solved as a starting point. Personalizing the amount of lecture time that is done in class by the student, as well as the speed of learning by each student is thus possible. Students participating in such classes get the learning experience that they need. Apart from this, they are provided with various levels of expertise and the activities are selected on the needs of different individuals. The progress of students is evaluated by their answers that are usually related with exam. It depicts the fact that the algorithm strategy pinpointing problems uses a theory with the substantial complexity since the student decides on the complexity of question.

In order to customize educational materials and activities to each student's requirements, AI examines each student's learning preferences, styles, and performance statistics. Students are able to learn at their own pace and in their own way because to this customisation. Sophisticated algorithms examine how learners interact with texts, spotting trends in their preferred methods of learning. Preferences for text-based information, interactive activities, or visual or aural learning are all included in the way for doing so.

A student's progress can be used by AI to dynamically modify the format and level of difficulty of learning materials. In cases, where a student demonstrates exceptional proficiency in a particular subject, the system may provide increasingly difficult material while simultaneously offering backing in extents of exertion. AI also develops personalized learning itineraries for each student based on their talents, precincts, and interests. This ensures that learners are guided through a curriculum that is tailored to their specific requirements. AI facilitates instantaneous and simultaneous assessment and feedback on assignments and assessments. This rapid feedback assists students in understanding their mistakes, reinforcing learning and allowing teachers to intervene at the appropriate time. The effectiveness has been attributed to it being non-judgmental and motivational, while giving immediate and frequent feedback, individualizing learning to meet the

students' needs, allowing for more student autonomy, and providing multi-sensory components.(Barley, Z et al., 2002).

Thereby, early detection of learning gaps or obstacles by AI allows teachers to supply tailored interventions and support. This proactive strategy groups learners on track. AI meets a wide range of learning demands, including those of kids with varying learning ability, linguistic preferences, or special needs. This helps to create a more inclusive educational atmosphere. AI data on student performance and engagement may be utilized to constantly update and improve the personalized learning experience. This iterative method guarantees that the system responds to students' changing demands. In a word, customized learning enabled by AI has the potential to transform education by personalizing educational experiences to each student's unique characteristics. This method promotes a more engaging, effective, and inclusive learning environment, eventually contributing to the success of the program.

2. Adaption and Learning Systems

Learning systems which are capable of adapting to this changing need can either do so automatically, based on student success, or through related expert instructions. This not only saves the learners from ongoing boredom and even overburden, but it also provides them with a balance between learning and forgetting. Often empowered by the use of technologies, such as AI, adaptive learning systems transform the content delivery to the preferences and needs of every learner individually. Adaptive System (AS) varies learning materials' complexity and difficulty according to data collected during previous observations. Implementing that will help avoid the lack of engagement or discontent through drawing boundaries and fitting material for students according to their present mastery. Adaptive models allow exploring the maximum level of complexity without going beyond the present capacity of the student by varying the difficulty level. It does so is an easy way of controlling and handling stress. Accordingly, they are advocated the best way of handling potential skirmishes. Such method singles out lagging areas or regions where the student is faced with learning gaps which is followed by an increase of task numbers, change of explanations or providing supplemental resources to deal with such issues. Adaptive Learning assesses students' specific learning abilities and tailor-makes learning situations that can tackle differences in speed, styles of learning and talent. This inclusiveness will give a fair education service.

Adaptive learning system designed to develop more learning experiences, enhance knowledge retention, and ultimately overall excellent learning outcomes boosts the learning process. Parallel Intelligence has gained considerable attention in recent years due to advancements in AI technologies, such as machine learning, deep learning, and natural language processing. These technologies have enabled the development of intelligent systems that can collaborate with humans in various domains, including healthcare, finance, robotics, and cybersecurity.(Auth0 - Blog. 2021).

Nowadays, these technologies contribute towards the effective and new-age learning approach for the rising digitalized world. When selecting a system you should see what the extent of flexibility is, how personalization is prepared for the learner and possibility of change by the educator. Nonetheless, beforehand contracting down into specific issues, identical to what equipment; it is manifested in , the costs and the exercising part either it is included or excluded. The intelligent systems of education are customized and interactive which help the students in a

better modus. Their teachers are assessing learning as it is transpiring. From a condescending understanding, they take a position to display a particular social issue, much similar to a YouTube video suggestion of the next videos to watch. Decision tree architectures frequently act as return check modules in the homework systems, allowing them to determine the response format. Whilst several systems use ethical principles, they also benefit from learning in order to self-alter. What substitute adaptive learning is for traditional classroom teaching is personalized instruction where each student's own terrain and monogram is the basis of assessment of understanding. Furthermore, an AI teacher offers course materials that are designed for the individual student since their needs may be different.

Partaking its part of the course and testing do adjusted to a learner's proficiency level and way of learning is a step of giant in the course of customization. Adaptive learning is marked by overseen practice sessions and shorted feedback that expedite the learner close to the previously agreed learning objectives. That is why, education is whispered to be technologically transforming learning by creating routes for students with content that remains static.

The very fact that a gathering of learners out there with different kinds of learning abilities is simply scrubbed to the side. Each student is not the same in terms of their background, learning proficiencies, the mother tongue, the sphere of competence and the information which he or she already possesses. Practical knowing can be developed more productively if such variations are considered too. Whilst universally acceptable learning foundations and customized teaching address education gaps, featuring each particular student is a rather hard task. Through adaptive learning, students can be shown the way out of this dilemma. Technology provides the capability of tailoring assessments and content for each learner according to his/her knowledge profile. Distributing the content through adaptive learning systems, such as learning management system, is one essential role sets. The whole study program is put into the system and then the system operates algorithms to create individual, customized learning paths that fit the learner's system contacts.

Therefore, every learner derives from the special education given according to his needs and what he knows already. Approach consists of feedback giving, to check how the students have reached the goal. The system determines what precise seepages the understanding of student has when identifying them; the system reverses until the student reaches the proficiency of the subject matter. It is only after the mastery of each specific stated goal that the student will advance beyond in the class syllabus by spending less time on studies where there is no any sort of interest or while that particular subject is already mastered, they study nippily and more effectively. In order to better prepare for tests, students work continually through formative practice, which serves to reinforce course material throughout the interaction with the student. Adaptive learning platforms allow instructors and students to discover learning challenges in genuine interval by leveraging data on the learner's progress in a course.

The challenge of unequal apportionment is contradicted by the use of technology that creates assessments and content tailored to each student's specific silhouette with the help of adaptive learning strategies. Content is delivered through adaptive learning platforms, very common learning management systems. The only thing, the course material, has to be in is the platform; and then it uses algorithms to generate their customized pathway of lessons based on how the learners interact with the system.

For that cause, every student gets his or her special education plan fit with their learning ability. The approach assesses the learner's understanding using formative evaluations. The

progressive formative assessments gauge the student's progress and increase motivation. The program recognizes any holes in a learner's understanding. The sequence of the course material never moves on until the student demonstrates that she/he has grasp every single learning objective. Learners can move on to specific areas that interest them or may require their strong-suits through this targeted approach, resulting in them being more efficient and effective.

Ensure the deployment of AI in teaching apps so that students need not wait for long when they have challenges with a topic and the machine teaching may help. To make comprehension, the systems might detail reasons, illustrations, and add more material. One of the examples of a high level of artificial intelligence application in education is Intelligent Tutoring Systems (ITS), which are meant to allow students learn instantly the educational materials in an individual approach at their own level. Via learning style, speed and individual tastes, these systems instead personalize the activities and resources tutelage. In the wise guilt, every student is afforded a study that encourages many broader views of the subject. As with VR/AR, ITS present information to the learner through 3D simulations, text, images, and audio. This means comprehension in general; it increases as well as accommodates different types of learning styles. ITS assists students to explore new ways of learning whenever they need it, and wherever they are. This prospective causes a higher adaptability to learning. This is especially helpful in situations with no or with asynchronous class and also for the learners who may seek extra help out of the classroom hours. The ITS might benefit right away, but they are at their strongest point when they are used as the part of comprehensive educational strategy, in which human teacher act as a kind of auxiliary source, giving advices, mentorship, and helping when necessary. Intelligent Tutoring Systems do not only really fulfill their duty of improving the learning process by providing possibilities that are precisely designed to aid. Nonetheless, these systems also offer the opportunity to better understand the topics that are being taught. They could develop into the next iteration of technical subjects, a vital part of education, when technology reaches a higher technological level.

Apply AI tools in scraping and analyzing vast student data regarding their behavior; performance, and engagement. This sort of information may come in handy for teachers so as to take necessary and effective measures and decisions for enhancing learning efficacy. Data-driven decision-making in education can be explained as a process that relies on AI and data analytics to retrieve, manage, and comprehend huge data of student performance, involvement, and behaviour. AI system analyzes such information as result of the tests and exams, scores, quizzes, and the assignments to set a standard for student's success. The teachers find out about each student's individual and class characteristics, strengths, and weakness; hence, discover things requiring special attention. Data analytics on teaching and their performance serve as the bedrock of educator development programs that aim at enhancing the abilities of teachers.

Therefore, there is a conviction and a convention that educators are good at what they do, so learners progress accordingly. Teachers attempt new strategies and ideas as they know whether the students have learning struggles, or if they are able to grasp the ideas taught. Strategic planning for schools is for improving data-based guidance to the superintendents. That is about a collection of decisions on the enrollment of students, studying content and empowering educational initiatives. Iteration education processes are grounded on the data. Data is gathered continuously and studied attentively. Educators are credible to create a culture by which they monitor their performance regularly if they take feedback into account and implement it in their practices. The data collected could be used for future policymakers to base their decisions for education. The fact

that such policies are based on factual information and are organized based on real performances and involvement of students produces good results. Data-driven insights may be discussed with parents helping a possibility to convey to them the achievements, strengths of their child and also the areas for improvement which requires work.

In this context, partnership has a tendency towards embracing the holistic education. The utilization of AI to reinforce data-driven decision-making in the domain of classroom is what makes the administrators, school authorities, and teachers better capable of taking decisions that improve the learning outcome, develop sound instructional strategies, and strengthen the overall effectiveness of educational expenditures. The process of this has to be dealt ethically, in mind that students' well being, data safety and transparency may affect.

3. AI and Approachability

The striving of participants of learning process to benefit from the highest standards of learning and using the AI is constructed on virtual sites from all corners of the world. Overcoming this barrier is realized by learning the ways to overcome caveats like language and cultural nuances and not only converting content but also working on the concept of communication in minds. Launch digital literacy programs along with instruction books and learning materials. The match is specified for the need of courses on various aspects of walks of life. Hence, providing students with practicable strategies to deal with AI enabled systems makes possible for them to also profit from the digital education. The attaining of a global pedagogical framework powered by AI should be a challenge that entails strategic and collaborative efforts. The partnership of instructors and technology experts proves to be far easier to overcome each language, cultural, technical and financial barriers for a residential, inclusive and equitable space for students around the world.

AI provides the foundation of distant communication amongst learners from different parts of the world, making collaborative learning more powerful and diverse. A striving should be given to create online environments where students may exert jointly on an activity, crafting ideas, and receiving knowledge from many different perspectives. AI is recycled to shape better learning environments for online students. Through this, one will have features like a multi-purpose tool that can work for many purposes, simulation of translation, and customized delivery of content. Design intercultural programs in the form of 'cooperating among students who come from different backgrounds' kinda programs. AI can be used to customize workflow processes, reduce bureaucracy and lead to creation of diverse teams. Establish online mentor programmes involving students in different geographical locations. AI is even proficient of networking students with their networks from around the world based on their cultural backgrounds, interests, and profession. By way of these, students can take part in interactive role playing, go on a virtual journey to get the experience from it, and have simulations that are more interesting.

Put it as of a paramount importance that the programs are based on projects so as to be promoting cooperation. AI is an auxiliary to cooperative work on project planning and carrying out, with the purpose to let the students contribute with their own specialty and point of view. Provide instructional courses on cross-cultural communication skills and cultural competency, so that the students may learn and adapt to the diverse cultures. In consequence of the fact that students have different learning orientations as well as on knowledge gained earlier, AI can be

employed to design the modules. Thereafter, virtual classroom turns out to be a place where students sense appreciated, where they learn together and become more culturally aware, and where the mind-blowing power of AI is carefully blended with teaching approaches to provide specific instructional modalities. One of the great benefits of technology is the way it will facilitate the formation of more entrenched relationships across national boundaries. As technology becomes more developed, this probability will only become greater.

4. AI and Life-Long Learning

Imaging AI to be the a commonplace standard of revolving ethos of education that offers then off -request learning materials up the life span people. This enables a mindset that is capable of learning throughout the lifetime and that can adapt to change. In that AI-based lifelong learning is implied, it sets a culture of learning for the future jobs that are already changing and the technology that is rapidly progressing. AI has the ability personalized learning paths these will be centered on people's specific desires for career development, specialty, or talent. This way the educational process is individual for everyone who learns, and everyone is provided with exactly the information they need. AI is able to offer advice to someone from the perspective of their unique personality traits, personal interests and industry trends. Another aspect to be considered is advising on the kind of skills that need to be learned currently, offering guidance on career search and providing access to appropriate learning platforms. To identify skills and competencies, digitally signable certificates and badges can be used by AI. It provides proof of continuous teaching and ability enhancement since it is not merely hypothetical knowledge. AI is, by all means, a very natural way of combining learning experiences into people's work environments. At the core of this process is tutoring, offering support tools, and making sure that materials provided to middle leaders are appropriate and timely according to their roles. Possibilities of the artificial intelligence-based AR and VR to immerse users occur when AI is included. These technologies give students the ability to view reproduction of field environments which may be utilized to master skills and real-life situations carried out across many subjects areas. People may remain adaptive and resourceful in jobs through lifelong learning whereby they are rooted in a learning attitude for tomorrow. Besides the advantage of the workforce being more vigorous and competitive, every individual benefits from this approach.

Visualize AI becoming part of a continuous learning culture where individuals will have the opportunity to access customized, self paced content when they need it the most in their lives. This stimulates a learning culture of perseverance to achieve in a job market where changes happen all the time. Offering learning opportunities throughout people's lives through AI-based educational programmes become critical at times of changing job markets and technology development. AI can furnish individualized learning directions for people who are interested in their future career and other activities depending on their proficiencies. This is to therefore, a learning journey enhanced by a learning experience which is customized to address the specific needs of each student. AI could use knowledge of an individual's capabilities, passions or demand for certain jobs to advice on career path. Besides advising what skills to learn, where to be positioned in the industry, and where to get the necessary knowledge, it also involves introducing learners to career coaches among many others. Digital certificates and badges' creation of an AI system will make skills and accomplishments recognition easy. This provides an actual proof of continued education, as well as an documentation of skill advancements. AI does not have grind in

it's bones, which is why it can integrate life-long learning into working environment. This means training on skills that are necessary to the current job, providing of useful support tools, and making available timely materials that may interest the trainee. Immersive training available by AI-based AR & VR technology is an upcoming trend now. Such technologies might recreate original media which in turn could be used by teachers as a learning manual or even meta-teacher dealing with so many issues. Keeping one's way of being adapted and being relevant in the market of employment could be done by applying AI to the activities of lifelong learning, that is from daily practicing of learning attitude needed in the 21st century. The strategy that is vindicated in this way becomes a source of collective resilience and competitiveness, as well as that needed by the individual.

The chain process sets the timing of the future education. It is composed not only from the separate aspect of the information time transmitting but also from the connections process, which happen after every learning time. From the following point, the understanding that a lifetime learning is mandatory is founded on the premise that an individual cannot be able to become the best in the field without undergoing learning from the early stages of life till a person is in the hard-working frame of mind in the dimension of both work and career ambitions. An opportunity to develop in a revolutionary manner or evaluate life in every period after this may be the power of an individual's acquired knowledge. The whole working life spectrum of what is called the lifelong learning is not the best representation. Work and professional practice terms should be converted into procedure and to professionalize words, respectively.

The lifelong learners not only study for their future but they also make the cohesion and the completeness of their lives according to the process of lifelong learning. They must learn systems dynamics competence to prototype solutions and establish career ahead. They should be willing to adopt moral stand and momentarily put aside their interests to serve in the best interests of other people. This exemplifies how this the process is actually very individualized, depends on needs, and it often is too challenging. The statements is hypothesis about the development of interaction and educational activity. The concept of learning must be often and thoroughly re-passed starting from the stage of receiving and incorporating, in order to advance the knowledge of the student and to provide him with the ability not just to learn but to build new social and cultural experiences.

5. AI and Teacher Empowerment

For the reason of optimizing the learning experience, there should be professional development programs developed along AI literacy for educators. These workshops should cover basic AI concepts, uses in education, and ways to effectively integrate it into teaching practices. There should also be developed AI Curriculum Integration to provide educators with resources and support to help them integrate AI concepts into existing curricula. Create a repository of lessons plans and instructional resources augmented with AI. These are resources to be utilized and adapted to fit pedagogical approaches and the needs of learners. Develop AI tools specifically for educators by working with companies that provide educational technology. These tools have to be user-friendly and conform to educational principles. Educational institutions may use AI to enhance teaching practices, meet a variety of learning needs, and better prepare students for the possibilities and challenges of the digital age by putting a high value on teacher empowerment. In

order to ensure the ethical and successful integration of AI in education, teacher empowerment and engagement are crucial.

Pedagogical autonomy would be understood as an act of having the freedom to decide on one's curriculum and instructional materials that are to be used in the class and in all the schools. With such a type of autonomy, schools will be equipped to carry a broad range of programs and courses, try out different styles of teaching, and better attend to the individual needs of a student. Educators should be qualified, just like any other profession. They must develop the competencies needed for acquiring mastery of the most important subjects, teaching leadership, and motivating students and attending to their everyday needs and the academic development. Education administrators at the institutional and systemic levels should improve their leadership skills by developing teams, allocating cash for scarce resources, assessing student achievements, and supporting teachers.

Teachers should have adequate resources to help students achieve their potential: up-to-date textbooks and instructional materials that use evidence-based teaching strategies and are written in a language that students can understand. Thereafter, the utility is firstly to gather data from and about the learner, secondly to represent the learner's knowledge and learning process, and thirdly to perform diagnostics of a student's knowledge by select optimal pedagogical strategies. (Wenger, E., 1987) Information about student achievements should flow from the classroom to the whole system to understand the state of learning today and to find answers to problems that specific groups of students encounter as they are learning. Educators need to understand and apply a wide range of pedagogical strategies in order to modify their teaching.

This would mean more time to plan and teach. Much of a teacher's time is spent, on a day-to-day basis, trying to find enough time for instructional activities that help children learn. Much of what teachers and other educators who do not work in schools do has a direct and indirect role in influencing the experiences of young people. They influence the culture of their schools and organizations, in order to allow young people and colleagues to become self-reliant and to prompt change beyond their schools and organizations by influencing other educators and educational leaders.

Thereafter, teachers and educators need to be prepared and helped for such strenuous work. They have to be independent to help others achieve autonomy, which is clearly the opposite of what most consider a systemic impotence of teachers worldwide and a major challenge in places where the chronic deficit of teachers is a fact. In this context, it is through enhancing the status of teaching and enabling teachers to take responsibility for professional standards; it is through empowering teachers to foster pedagogical innovation and rethinking initial teacher education and professional development to bring about change in the education system. It is by the interactions between the learners and the pedagogical cause for facilitating a social relationship. (Apostol, Ailviu et al., 2013).

To effectuate these changes, teachers and educators must work as change leaders, create cooperative teams, and conduct trigger projects. To understand the bases upon which these strategic projects can have a deportment and comportment, we have to establish a world network of education professionals who are fully and genuinely committed to empowering educators for the empowerment of young people. Try to use AI for enhancing and reducing educational inequalities by catering to the diverse demands of students, taking into consideration their histories, learning styles, and learning capacities. Educational disparities can be addressed massively through

inclusive education through smart integration of AI. Multimodal learning resources offer learning materials in several modalities, that is, text, audio, and images. AI can support multimodal content creation and recommendation for a variety of learning styles. AI-assisted solutions are integrated, supported by collaborative work by assistive solutions. Such capitals, which include AI-enabled reading support and speech recognition software, can help students in a variety of needs. Parents can keep track of and actively participate in their child's learning through AI-enabled communication tools. Apart from being able to support the tactics being used to boost their child's learning, this means that parents are kept well-informed of them.

In order to assess, on a continuous basis, how well AI applications are fostering inclusion, feedback systems are established that tap into the perspectives of parents, instructors, and students. Such input can be used to enhance AI-driven technologies. Access to Technology: Promote and conduct programs that ensure every student has access to technology and that do not perpetuate socioeconomic gaps and that the benefits of artificial intelligence are distributed fairly. In this way, educational institutions can design learning environments that effectively take into account the unique needs and abilities of each learner and use AI as an agent for inclusion.

The best known in inclusive education is the principle that every individual has the right to obtain a quality education that will fulfill their needs and enhance their quality of life. In particular, the marginalized and vulnerable sections will be given full opportunity to maximize their potential. Inclusive quality of education enhances social unity and eliminates all forms of discrimination. Basically, inclusive education is driven by the progressive conception of global social development and is anchored from a solid humanistic foundation. The elimination of all forms of prejudice is summed up through manifestations of friction are at hand, the concentration on formerly vulnerable groups. Two of the limiting forces of a living process – a true work in progress between the globe and the local – are these two extremes. The students with varied learning needs should be given inclusive education, or that, which incorporates them into all dimensions of their education.

Conclusion

One of the issues students and educators experience with any education delivered digitally are problems related to this aspect of learning. Learning in digital form might reduce the interaction between the student and the teacher. Issues with connectivity, having one's own device, or compatibility issues with programs are laughed by students. The fact that students can not be in a physical classroom can make them feel lonely and have little motivation. Development of digital technologies consumes much time for both educators and students to adapt quickly to this technology. A fundamental issue in digital education is to ensure the integrity of the assessments. For all that rationales, Digital education is a partnership between educational organizations, professors, and students.

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Author's biography:

Amine CHAAMI is an associate lecturer in the University Center of Aflou) Algeria). His research interests are also postcolonial and contemporary literatures. He has a distinguished record of publication in academic journals all over the world, and a dedicated partner to university national and international conferences and outreach events that help to promote learning and teaching and support the community.