TIKRIT UNIVERSITY
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Second year / select readings

(**Ai World**)
Benefiting from artificial intelligence in
various educational fields

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Introduction to AI:

In educational fields, artificial intelligence plays an important role that is constantly evolving to provide better and more personal educational experiences.
It is used to create smart learning environments that interact with students and meet their individual needs. It provides a variety of data-guided educational resources to improve educational results.

It plays an important role in:
1-Innovating guided systems that analyze the style and pace of students' learning, allowing the provision of custom content that suits their abilities and their own rhythm.
2-Using speech recognition programs to improve language and pronunciation skills.
3-Employing interactive learning programs and applications that promote learning through fun educational games and activities.
4-Developing platforms that use data analysis to provide detailed reporting on students' performance, helping teachers evaluate progress and identify areas where students may need additional support.
How it work: Artificial intelligence in language learning relies on natural language processing (NLP) to create customized learning experiences. AI-based language learning programs can analyze the

user's answers and interactions, then evaluate his level and provide educational content that suits his skills and weaknesses.

Steps:

1- Initial evaluation of the user's level of language. 2- Provide custom educational content based on evaluation.
3-Provide various interactive exercises and exercises.
4-Use voice recognition techniques to improve pronunciation and listening.
5- Provide immediate notes and correct errors. 6-Modify the educational plan based on the user's progress.

Impact and results

Pros:

1-Personalization: AI adapts to each user's level and provides custom content.
2-Flexibility: Users can learn at any time and place. 3- Interactive: Artificial intelligence allows for interactive and immersive learning experiences. 4- Instant Notes: Artificial intelligence gives immediate feedback, which helps to develop the language faster.
5-Reasonable cost: Provides access to rich language resources at lower cost than traditional learning.

Cons:

1-Deficiency of human contact: learners may lack human interaction and personal guidance. 2-Reliance on templates: Responses and content may not be varied enough to cover all grammatical scenarios.
3-Imitating accents and mistakes: If the training models of artificial intelligence contain certain accents or mistakes, the learners may end up imitating them.

4-Privacy Issues: The collection and use of users' personal data can raise privacy problems.

•In general, AI can be a powerful tool for learning languages, but it should be used in conjunction with other learning methods and not as a complete alternative to human teachers.

Artificial intelligence offers many innovative and multiple ways to learn languages that go beyond traditional methods. Here are the most prominent methods:

1- Customized Learning: Artificial intelligence creates educational programs that adapt to the user's level and style, leading to a personal and effective learning experience.

2-Visual and Audio Reinforcement: AI uses multimedia means to enhance the experience of learning through images, videos, sounds, and interactive exercises.

3-Speech Recognition: It allows systems to allow users to speak and receive instant feedback on their pronunciation, which helps improve listening and speaking skills.

4.-Bots Conversation: Learners can practice speaking by interacting with AI-designed chat bots for realistic language interaction.

5- Language correction: Artificial intelligence provides language correction tools that help improve writing and grammar, giving the learner an opportunity to learn from his mistakes independently.

6- Language games: Artificial intelligence integrates learning through educational language games that develop language skills in a fun and attractive environment.

7-Deep Language Analysis: Benefits from deep language analysis to provide complex exercises in ygrammar and vocabulary commensurate with advanced levels of learning.

Sure, here's a brief report on the utility of AI in various fields:

• In Sports: Artificial intelligence revolutionized sports through advanced graphs and dedicated training. It can analyze players' performance to improve their techniques, discover patterns in

adversary's gameplay, and provide innovative strategies for coaches.
It is also used in injuries analyzes and aids in prevention.
•In the linguistic field: As mentioned earlier, artificial intelligence
allows teaching languages in personal and interactive ways. It is also
used in machine translation and language analysis to understand texts
and speak, which is useful in global communication and breaking
language barriers. •Historical field: Researchers take advantage
of artificial intelligence to analyze huge historical documents and
discover the trends and patterns that humans may overlook. It can also
help archaeologists locate drilling and analyzing archaeological data.
Geographical AI: Geography contributes to providing space image
analysis tools to monitor Earth changes, predict natural disasters, and
facilitate urban planning and management of natural resources.
 +Positive results: - Use big data to improve performance and make
informed decisions. Save time and effort in analyzing and
interpreting information. The ability to predict results and facts more
accurately.

In the end, I would like to say that the emergence of artificial intelligence
is considered a revolution and a wealth at the same time. For those who
know how to use it, they can harness it for evil and for good, for
education and even for rescue.