The current state of the art of using Intelligent Systems Applications in interactive language learning.

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ABSTRACT

While the rapid development of technology makes it difficult to keep track of all developments, it also increases the need to stay up-to-date. Following the new and always using the new has become an inevitable need in business life, where change has become one of the most important elements. For this, it is necessary to know the latest technologies and their development status. This is where the state-of-art concept comes into play and characterizes cutting-edge innovation. The development of artificial intelligence technologies continues at a remarkable pace. It is equally important to know which of these technologies are the newest and to get an idea of what we can use them for. In this context, we will take a look at what state-of-the-art AI technologies are and what exactly state-of-the-art means.

Keywords: State-of-art artificial intelligence, benefits to businesses, face detection and face recognition technologies, voice recognition technologies, text recognition technologies, emotional recognition, benefits of state-of-art

Introduction:

State-of-art is a state characterization. This characterization is mostly used in technology, science, advertising, and marketing. State-of-the-art means the "newest" or "latest" version of a device, technology, or theory. This concept is known as "cutting edge" or "leading edge." Another use of the term is to refer to "the latest and most developed" version of methodologies in an era of consensus. Some methodologies and technologies that all experts agree are the newest in the period are also referred to as state-of-art.

The term was first used by Henry Harrison Supple in an engineering handbook. In 1910, the word was first used there, and later became widespread and frequently used to characterize state of the art in certain fields.

Artificial intelligence technologies have been evolving for decades. They did not enter our lives suddenly. The term state-of-art is used to describe the latest state of these technologies and their newest, most up-to-date, and most advanced versions. You can find more detailed information about state-of-the-art artificial intelligence in the rest of our article.

State-Of-art Artificial Intelligence

Artificial intelligence has been in our lives for decades. Yet it is much younger than many of the technologies that have shaped and underpinned our times. Although AI technologies are very recent developments, the progress they have made is undeniable. The rapid development of these technologies attracts the attention of all of us and encourages research in the field. So how is today's artificial intelligence different from

the past? Why do we hear this concept more often today? Although the answer may seem complex, it is quite simple. Artificial intelligence technologies are widespread today and will become even more widespread in the future. The main reason behind this is that these technologies are now serving daily life. Whether it's in hospitals, retail, security, education, or agriculture, AI technologies are making our jobs easier in almost every field you can think of. This brings with it the need to facilitate the use of these technologies. Machine-human communication cannot be limited to people who know to code and work in this field. Thanks to recent developments, this is no longer the case. Today, thanks to many platforms that we call "no-code," we can all use artificial intelligence technologies in different fields. We can benefit from these technologies. The most up-to-date state-of-the-art artificial intelligence technologies are with us in many areas, such as text recognition, human detection, object detection, face recognition, emotion recognition, and photo editing.

Benefits to Businesses

When we look at today's state-of-the-art artificial intelligence technologies, it is possible to see deep learning algorithms at their core. Deep learning, a sub-branch of machine learning, refers to the practice of machines learning on their own with layered systems that mimic the human brain.

The most remarkable aspect of deep learning algorithms is that machines can learn not only from textual data but also from images and sound. This is the basic technology that brings many technologies, such as image recognition, image processing, and voice recognition into our lives. So where and how are these technologies used? Let's take a look at a few examples.

Face detection: Technologies are based on human detection and object detection. These technologies have a wide range of applications. You can use them in many areas, from demographic analysis to security.

Facial recognition : Technologies enable direct identification. Facial recognition technology is frequently used in residential and commercial buildings to provide access to pre-registered visitors, family members, and authorized staff while restricting entry to unauthorized individuals. Examples include the entrance of employees and visitors to commercial buildings, Smart locks for homes and businesses, as well as smart elevators for both types of structures. Facial recognition technology can also significantly increase security and surveillance effectiveness across industries while lowering expenses. It can detect anyone already in the system's database and determine when people are in a camera's field of view, automatically issuing notifications for targeted human interventions. Although the sectoral area it is used in is very wide, it is possible to build the Face Recognition application that suits your needs from the Cameralyze no-code platform without the need for code knowledge.

Voice Recognition Technologies

Voice recognition technologies are used especially by banks for security purposes. The use of these technologies for security reasons is extremely widespread.

Text Recognition Technologies

With text recognition technologies, you have the opportunity to create digital archives, prepare audio texts for visually impaired users, and edit and digitize your hard copy texts. You can also use artificial intelligence to analyze your texts after scanning and storing them. These analyses can greatly expand decision-making processes and provide you with accurate insights.

Emotional Recognition

Emotion recognition is emerging as a very important AI feature in business development. For example, if you have a retail store, you can make the necessary changes and updates thanks to these technologies that provide you with a report on how the customers who come here react and what they feel while looking at which parts of the store, which products and the showcase, and you can also have detailed information about your customer profile. To build the Emotion Recognition application and start using it immediately, register with the Cameralyze platform and try it now.

Conclusion

So let's briefly summarize which developments we can put in the state-of-art al category in 2023.

· Contrary to the idea that artificial intelligence will be centralized and monopolized, many independent laboratories have opened, and many independent start-ups have come to life. Example: Cameralyze

· The concept of security has become increasingly important. Studies on how to use artificial intelligence for security have accelerated.

· Scientific research on artificial intelligence has gained popularity. The scientific world has accelerated and increased its work in the field of artificial intelligence.

We have talked about state-of-the-art artificial intelligence technologies in detail. So what are the advantages of using state-of-the-art artificial intelligence technologies

· Accelerates your business processes

· It allows you to make more accurate decisions based on precise data.

· Allows you to save time and Money

· Future-proofing your business

· Keep you up to date and evolve

State-of-the-art artificial intelligence technologies are crucial to improving your business. While the smooth running of business today requires a certain technological infrastructure, this will only increase in the future. If you don't know how to get acquainted with state-of-the-art AI technologies or how to use them yet, a platform that will provide you with all the support you need: Cameralyze can be your savior! With Cameralyze, it is possible to access the latest artificial intelligence solutions without the need for any technical infrastructure, using a user-friendly no-code platform. Cameralyze provides you with all the support and flexibility you need. It accelerates your introduction to artificial intelligence. It allows you to save time and cost. Start using Cameralyze today to benefit from Camerlayze's artificial intelligence world full of opportunities.

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