

Impact of Artificial Intelligence on Mobile Apps

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Abstract: *This branch of computer science deals with programming computers to behave like humans. Games, expert systems, neural networks, natural language processing and robotics are all examples of artificial intelligence. Currently, no computer provides full artificial intelligence (ie can simulate human behaviour). The most important advances took place in the field of games. The best computer chess programs can now beat humans. Today, neural networks are the hottest field in artificial intelligence and have been successful in various fields, including voice recognition and natural language processing. Several programming languages are called AI languages because they are used almost entirely in AI applications. LISP and Prolog are two of the most common. It is clear that the world of mobile technology is rapidly embracing artificial intelligence. To enable robots to act with human capabilities, this technology is gradually covering everything from self-driving cars to IBM's SIRI and Watson to Google's search engines. It is clear that artificial intelligence is rapidly gaining ground in the world of mobile technology. From self-driving cars to SIRI, this technology steadily includes everything from IBM's Watson to Google's search algorithms to enable machines to act like humans*

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I. INTRODUCTION

Artificial intelligence is defined as the process of developing computer programs to solve complex problems using analogy processes. Human Thought Processes This is the branch of computer science concerned with the study and development of intelligent machines and software. The field was founded on the assumption that intelligence - Homo sapiens sapience - can be precisely described and simulated by a machine. It raises philosophical questions about the nature of mind and the ethics of creating artificial beings that have been addressed in myth, fiction, and philosophy since antiquity. Artificial intelligence has generated a lot of excitement, but it has also had many failures. It is now an integral part of the technology industry, solving many of the most difficult problems in computing. Reasoning, information, planning, learning, communication, perception and the ability to move and manipulate objects are the central problems (or goals) of artificial intelligence research. Artificial intelligence uses a wide range of tools, including variations of search and mathematical optimization, logic, probability and economic methods. Developers have already begun to integrate this technology to perform certain tasks such as voice or handwriting recognition, computer search engines and medical diagnosis. They develop AI-powered systems that can effectively learn from past experiences, find meaning, and demonstrate their capabilities through reason. Developers have begun to create systems powered by artificial intelligence that can effectively learn from past experiences, find meaning and demonstrate the ability to reason, and have already begun to integrate this technology to perform certain specialized tasks, such as voice or writing recognition, computer. to search engines and medical tasks. Diagnosis.

Smartphone sales are booming thanks to AI technology that makes routine tasks easier for consumers. However, AI has much more potential than digital assistants. Over the past decade, mobile apps and user experiences have evolved dramatically. We started with simple applications that had very little success. However, as a result of the smartphone revolution of the last decade, everything has changed.

Advances in AI technology have allowed mobile users to completely transform the current user experience-value comparison. Users have come to expect more detailed and personalized performance from mobile apps. Smartphones have GPS tracking capabilities as well as a microphone and camera, making them an excellent platform for AI applications. Additionally, Apple announced that the iPhone XR, 11 and 12 will include the A12 Bionic chip with a neural engine designed to use AI hardware in previously unthinkable ways.

Apps become more meaningful and personalized when AI technology is combined with its built-in features. By contextualizing user behaviour with AI, every app session is better than the last.

Contributions of AI to Mobile Application Development

- **Face recognition:** lock has become one of the most popular features on Android smartphones due to its 'easy to use' nature and added layer of security. To unlock the phone and the various apps that are installed on it, these systems use AI and ML-based algorithms that recognise a person's face.
- **Mobile search engines:** One of the most common and popular advances in artificial intelligence and machine learning is the use of voice search and voice commands. Customers used to enter their search terms into search bars. It is now as simple as requesting that your virtual assistant look for something for you.
- **Real-time translation:** There are numerous translation apps available. The majority of these apps, however, are inoperable without internet access. Artificial intelligence could enable smartphones to translate and transliterate different languages in real time without the need for an internet connection.
- **Emotional intelligence:** Emotional intelligence is a developing AI technology. Incorporating ML and AI into apps and capturing micro- and macro-expressions are now possible thanks to our advancements. Software is now able to interpret human emotions by recording minute fluctuations, clues from body language, and vocal intonation through picture and sound data processing. By determining the demand for a product or service or to generate fresh ideas for new products, businesses may utilise these analytics to improve the customer experience.
- **Smart Camera Apps:** AI and ML are being used to make substantial progress in one of the most crucial areas of bespoke Android app development, which is the smartphone camera. When a subject, such a person, fireworks, or food, enters the frame, these sophisticated cameras can identify it and change the settings to capture the finest possible shot.
- **Search Engines on mobile phones:** The use of voice search and voice commands is arguably one of the most pervasive and well-liked developments in artificial intelligence and machine learning. Previously, consumers would input their searches into search bars. Today, finding anything is as simple as asking your virtual assistant to look for it.

II. CONCLUSION

So far we have talked about the main features of artificial intelligence including its benefits, techniques and clear description. Now it can be said that building a machine or a robot for example is more difficult than learning ABC. It is difficult to create a machine that can act like a human in many situations and show emotions. We now agree that the study of creating objects that function exactly like humans is artificial intelligence. It is the way we reason rationally, act sensitively and act and think like humans. We know that even a computer has beaten a human in chess with the help of artificial intelligence. So we can conclude that our progress so far has not been in vain because it somehow helps to improve artificial intelligence. Although artificial intelligence has not yet been fully developed in any computer, this development is well advanced.

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