

processes, predict and prevent housing and communal accidents, be responsible for the safety of property, etc.

Artificial intelligence in healthcare. With the help of artificial intelligence, it is planned to diagnose cancer in the early stages. The developers of Behold.ai report that the remedy for this disease will not have the usual form of medication. Their goal is to teach AI to detect malignant tumors on X-rays as early as possible, which is not to cure, but to prevent the development of the disease.

So, the field of AI, which has become a mature science, is developing gradually, slowly but steadily moving forward. Therefore, the results are quite well predictable, although on this path, sudden breakthroughs associated with strategic initiatives cannot be excluded. For example, in the 1980s, the US National Computer Initiative took a lot of AI out of laboratories and had a significant impact on the development of the theory of high performance computing and its application in many applied projects. Such initiatives will most likely appear at the intersection of different mathematical disciplines - probability theory, neural networks, fuzzy logic.

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INNOVATIVE PROGRAMS AND APPS FOR LEARNING ENGLISH

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Nowadays, English became a must for everyone who wants to have an advantage in many spheres of life, from cultural exchange to business and science. To be more specific, popularity of English language can be measured by countless researches and statistics which indicate that in 115 countries from 200 existing, people speak English.

English is quickly growing into overall using link between different countries around the globe. Still, not everyone has an opportunity to learn it freely. Then, the century of technologies and innovation comes. There are a lot of programs and apps worked out to help people with learning English in Internet without going outside the house.

Besides, as long as, this decade of network developing offers so much more unimitable, unique and diverse interfaces, functions and software, so these apps are available for every age category of users.

Among the most popular programs which are specifically connected with living in English speaking countries are: FLEX, Global UGRAD, Canada's Mitacs Globalink Research Internship Program for Ukraine and others. All of them are offering an incredible nine month in a host English speaking family, studying in school with a scholarship and, some of them, traineeship in a company. These programs are used to broaden one's horizons, exchange some traditions and knowledges. What is more important the main aim of these program is giving a chance to erase the language barrier between different countries.

Speaking about technological progress, training online apps can't be ignored, table 1. They have interesting and catchy forms of learning English for kids and useful, practically verified daily phrases for adults. Here are presented five the best English teaching apps.

It is one of the best solution to learn English from very beginning and not fall asleep during the process.

Also, such devices can be so much help in connecting people worldwide, without leaving their own house.

Name	Advantages
Lingualeo	Everything is interesting with the game.
Duolingo	Short time period of learning.
Hello Talk	It is possible to be a teacher by sending a message in a correct form.
Memrise	Learning new words through the spy adventures.
Easy Ten	Only ten new words a day, very easy.

Table 1 – TOP 5 English teaching apps

In conclusion, last two decades has improved in the sphere of innovation to make our life more comfortable and interesting. The mentioned programs and apps give an opportunity to know something particularly new about various nationalities, traditions, music and art by learning extremely popular and interesting English language.

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AIR CLEANING WITH THE USE OF ELECTROSTATIC PRECIPITATORS

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Air purification is of vital sanitary, hygienic, ecological and economic importance. Dust collection, if properly organized, solves the problem of ensuring the maximum permissible concentration standards in the air of the working area. However, with the lack of a dust cleaning system all harmful substances are released into the atmosphere, polluting it. Therefore, the dust cleaning stage should be considered an integral part of the dust control system of an industrial enterprise.

One of the most advanced methods of cleaning gases from dust and liquid particles is cleaning in electrostatic precipitators. The process of electrically trapping particles consists of the following stages: charging suspended particles; movement of charged particles to the electrodes; deposition of