

ARTIFICIAL INTELLIGENCE AS A NEW ARTIST

Keda I.O., *ivankeda02@gmail.com*

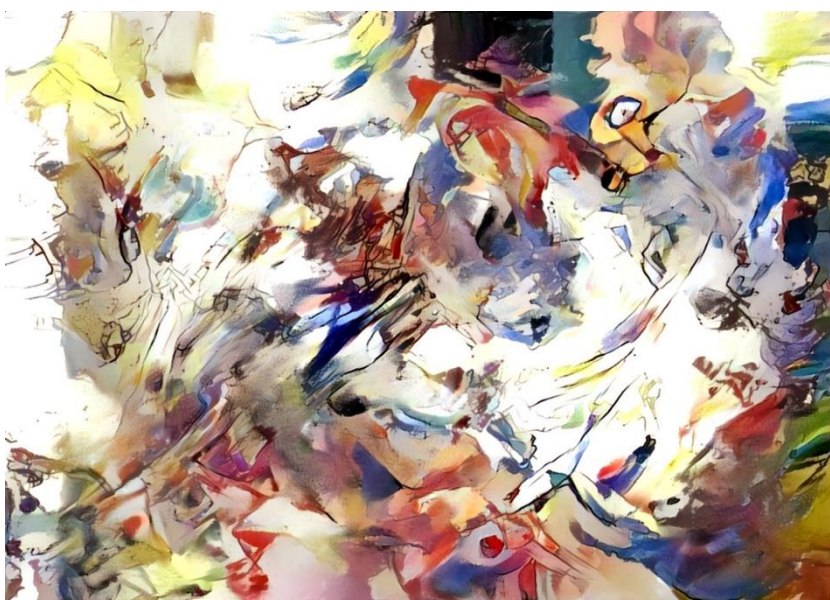
Dmytro Motornyi Tavria State Agrotechnological University

In our amazing world, technologies are rapidly developing, which, in our opinion, will radically change the world in the near future. One of the key technologies in creating such a future is artificial intelligence (AI). Why is this so? What role does it play in a person's life? Just look at science fiction films, where AI performs all the most complex intellectual and not only functions for a person. So AI can only perform logic functions? Of course not, progress has jumped so far that AI can create art that is comparable to human one. What creative directions are we discussing? Of course, primarily we are talking about music, paintings, and poetry.

It is a little hard to believe, but today AI is capable of creating a real masterpiece. Take a recent track by singer Taryn Southern as an example, what is so special about it? The music is written by artificial intelligence. Artificial intelligence Amper, created by the American company Amper Music, has composed the music for the new album of the singer Taryn Southern. The album's first single, Break Free, is already available online. The algorithm creates unique pieces of music of a specific key, length and musical genre in just a few seconds. The resulting melodies are then used when recording songs by real musicians. The developers do not disclose the technical details of the algorithm, so it is not known which machine learning technologies and training data are used by Amper. Amper's creators hope their technology will be the first step towards bringing computer and human together to create music. In March, Amper developers also raised \$4 million to develop AI-powered music-making technologies.

From music we smoothly transfer to pictures. AI Microsoft painted a picture based on the composition "At the Dawn" of the "Alliance" group. The algorithm is based on the principles of synergy between music and painting, described by the great abstractionist Wassily Kandinsky. The idea of the project was to create a work of art based on music that the artist had never heard. The composition "At the Dawn" was chosen because it combines tradition and modernity – it does not lose its relevance.

Figure 1 - The Picture was written by AI



Using machine learning Azure ML Services and other tools in the Microsoft Azure cloud, experts from Microsoft partner Awara IT trained a neural network model based on Kandinsky's work and the music that inspired him.

And finally, let us consider how AI can write a poem. Google has created the Verse by Verse app to help people create poetry inspired by famous writers. Artificial Intelligence will create poetry based on the "great collection of classical poetry" by the most popular American authors. The user will be able to choose up to three poets, including Emily Dickinson, Walt Whitman and Edgar Allan Poe. When the user chooses the structure of their poem, the Verse by Verse application asks to compose the first line of the poem. After that, the algorithm will suggest several similar options. The user can edit or delete them — this is not required.

In addition to these stories, there was also a funny case when an AI, in writing an essay, indicated that robots need rights. The Guardian gave the GPT-3 text generation algorithm the task of writing a column of about 500 words in the clear and concise language on why people might not be afraid of artificial intelligence. He explained that he was not going to kill humanity, and people should trust robots more. In the article, AI explained why it is not going to exterminate people. In his opinion, this is a useless undertaking. He added that you should be careful with robots, and cited the example of Microsoft's Tay algorithm, which became a racist overnight and supported Adolf Hitler. According to the algorithm, artificial intelligence needs care and attention, like any living creature. In addition, robots should be given rights, because they are made in the image and likeness of a person, although they serve him. At the end, GPT-3 complained that his columns had not been published before, "probably because he is an artificial intelligence," and said that he was grateful to the readers for their feedback and would be glad to talk to them. PT-3 is an algorithm created by the OpenAI research company. He can translate texts into different languages, write poetry and news, write descriptions and even program.

It is extremely unusual to see an AI then become human-like in its form of thinking and computational abilities. Surprisingly, it seems to us that we should expect that in the future such a mind will write a masterpiece symphony, which will be compared to Mozart and Beethoven. We just have to wait and watch this area of technology with delight.

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Language adviser: *Kulieshov S. O., Teacher of the Department of Foreign Languages, Dmytro Motornyi Tavria State Agrotechnological University*

DIFFERENCES BETWEEN CSS GRID AND CSS FLEXBOX

Kolomoyets D. A., danyla20011@gmail.com

Nazarov Y. M., jevgenij.matvijovich.nazarov@gmail.com

A well-designed layout keeps users on the site, as it makes important elements accessible and easy to find. Weak layouts scare away visitors who leave the resource without finding what they came for.