Could AI be the future of music?

https://futurism.com/listen-to-this-ai-composed-song 9. 24. 16 by **JESS VILVESTRE**

What seemed before like science fiction is now a rapidly growing and evolving technology. Artificial intelligence transforms the way the world works. Now, AI is a powerful problem-solving tool in numerous functions of society. Previously tedious steps of industrial production are now automated by robots that can anticipate changes in the system. In businesses, bulk amounts of fed data are easily manipulated and responses are faster and more reliable.

The SONY CSL Research Laboratory, however, proves that AI is not just for solving technical work and business problems. AI gets creative in their music-composing programs called Flow Machines. In the style of The Beatles, Daddy's Car is an exciting juxtaposition of yesterday's music and the technology of the future.

Daddy's Car was released alongside Mr Shadow, a song inspired from American songwriters including Irving Berlin and Duke Ellington. The software works by using a user-specified music style to generate audio chunks optimized from an enormous database of songs. Lead sheets are generated. The human composer finishes the editing and production. Composer Benoît Carré arranged Daddy's Car, and wrote the lyrics. So, no, the AI didn't completely create the song, but it did play a big part. What could the future be like with the artistic AI? We'll get to know more when SONY releases their AI pop album in 2017.

https://www.thedrum.com/news/2016/09/27/sony-uses-ai-compose-beatles-inspired-song-the-unforgettable-daddy-s-car

The Sony Computer Science Laboratory (CSL) has made a further advance in the application of artificial intelligence by using it to create a bizarre pop track called 'Daddy's Car'.

Created by AI software Flow Machines, the software analysed "a huge database of songs" and then derived the styling and combinations to produce a record in the style of The Beatles.

A total of 13,000 songs were entered into the machine from which a melody and harmony were created. From there, French composer Benoît Carré arranged and produced the songs, and wrote the lyrics. Sony CSL said that its music research "leads to new modes of access to music, interaction with sound, and human interaction".

"Applications range from music composition to text or drawing generation. Technically, these systems raise issues in machine-learning (learning style, extracting features), combinatorial optimisation (fitting styles to arbitrary constraints) and knowledge representation."

https://ars.electronica.art/aeblog/en/2021/07/14/classical-music-ai/ Classical Music: Composed by AI, Played by Humans

It sounds paradoxical, but what would happen if artificial intelligence wrote the notes for us and we only take on the role of musicians?

Ali Nikrang of the Ars Electronica Futurelab has developed Ricercar, a music composition system that can use artificial intelligence and existing human-composed music as a basis for writing new pieces of music in a similar style. At the Ars Electronica Center's Deep Space 8K, Daniela Mülleder (violin), Yishu Jiang (chello) and Ali Nikrang on piano presented the musical and AI-generated creation based on Franz Schubert's "Grande Sonate in B flat for piano duet, D. 617 2nd movement" – with visualization by Cori O'Lan. The recording was made as part of the documentary "NAKED AI: What happens when Artificial Intelligence and Human Creativity meet?", produced by Cisco Systems Italy S.r.l and Logotel S.p.A