

# How Artificial Intelligence is Revolutionising Creativity : The ART of AI

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## Artificial Intelligence : Introduction

AI Stands for Artificial Intelligence is a wide branch of computer Science which involves functioning of Machine like a Human .For our day to day work we rely on our brain which is a source of intelligence for human Beings. Similarly Computer or Machines are trained to have intelligence which is not actual intelligent like human but act like intelligent , Therefore they are called Artificial Intelligence . It is the Simulation or Copy of Human intelligence processes which is performed by machines/computers.As AI does not have to confine itself to the methods which are biologically observable or performed by the humans . As far as my study the real definition of AI in the simple language is that the machine which thinks or act like humans are called Intelligent machines / artificial intelligence

## How AI Works

AI is concerned with building smart software or machines which performs tasks which is done by human. AI is Trained by developers through a certain algorithms which is written in different languages such as C , C++ , Java ,python etc . Python is the main language which has vast number of libraries makes our work easier so the algorithm is designed in python to perform some tasks which is further model and trained by machines to do the tasks. As AI Systems are trained to perform tasks which is associated with human functions such as speech, searching and identifying patterns , playing games etc. For example how AI works on identifying Patterns ? . So as AI is trained and modelled to perform tasks it starts with collection of the data . Huge amount of data (Big Data ) is collected for the required tasks then AI looking for the patterns to model in their own decision making process. As human brain sometimes forget the data which is in the past but AI has a technique of reinforcement learning which is also called learning from the past .It collects the past data and perform the task If they needed the data which is used earlier.

# IMPACT OF AI ON ART

In this advance generation where technology is rapidly growing .AI is also transforming itself in many fields . AI is transforming the way of art . Art field such as drawing , painting ,music , generating digital image is the major area where AI stand out itself by giving the extraordinary output . Music , painting and drawing image which is the alone works only humans can do but now AI gives more better and desired output than the humans .with the introduction of AI in the field of art , it becomes very easy for the artists and humans to perform or express themselves without having to go through the process of artwork. as earlier artists have to create a artwork first to showcase then they express to the customer about what they want to make . Art allows us to express our uniqueness and make our mark in the growing world in the original way possible. As art involves human emotion , feelings etc but AI has no feeling and emotions , it is developed on the basis of pure science which is backed by algorithms with collection huge amount of dataset and model the machine by machine learning .

After the introduction of AI it has been used to create computer generated artworks which is useful for the artists. AI is increasingly advancing in recent times and have been used to create more realistic and lifelike artworks . Now a days AI generated artworks is very useful in different fields such as video editing , cinematography VFX etc . The painting/artwork is generally generated by a neural network which is a part of AI trained on a bigger dataset which results are realistic and extraordinary . Many AI tools are now introduced which are used to create new types of art . Some art which are generated by AI tools are completely random and unpredictable . This Provide a artists with a unique or new way of expressing themselves .

In recent times GAN which is known as Generative Adversarial Network are the type of AI tools/technology that can help to generate new images based on the training set of images . It helps AI to create or develop unique sets of image which is unpredictable. Many others AI based tools or softwares are available on internet which help to develop image or artwork in the way users want.

## Modern Use Of AI in Art Creation

Now a days in modern era AI will have an impact on the music production. AI has been used in many application which helps to produce music or sound of musical equipments such as guitar, piano , flute etc . AI will influence the way we create and experience music , over past decades music is alone performed by humans with the help equipments but now AI has overtaken the music industry by developing the software which are helpful in music creation.

AI Tools in Musical Industry which helps in music creation includes

- . Music Composition
- . Powered-AI Music
- . Music Mixing
- . Music Mastering
- . AI-driven Music Streaming
- . Hit songs Prediction etc..

AI tools are available to support the beginners in learning or generating music with their own choice. These Tools enhanced the base, audio quality and music quality . Overall AI playing a vital role in the growth of music Production .