In a nutshell

We're an early-stage startup working on the future of art.

If you are seeking a fast-iterative and challenging environment where you can be a principal element that drives innovation, not only by applying existing state-of-the-art research, but also by proposing your own solution to a real-world problem, and provide visible benefit to art lovers, this is your opportunity. Contact us!

About us

Artinity asks a question: What would the great artists who disappeared create today?

To answer that question, Artinity is forming a team of talented data scientists and curators who explore together the relationships between the character of artists, their techniques and their era.

Thanks to the advances in Computer Vision and Artificial Intelligence research, we design and train a unique Deep Learning model for each of the disappeared artists, capable of creating new, original and faithful pieces.

This AI is individual. It exists only under the exclusive license granted by heirs and rights management agencies and is intended to produce a limited, pre-defined number of posthumous creations.

These digital works are authenticated by means of NFT (Non Fungible Token) to be proposed to collectors around the world by the biggest auction houses.

Your mission

We leverage generative modeling to synthesize tasks such as creating a new original piece of art.
You will participate in designing our product which is based on an evolving Generative Model, by:

- Studying and analyzing the recent advances of Generative Adversarial Networks: we believe that tinkering with hyper-parameters is no longer important nowadays. Bringing recent research to the real-world is much more valuable.
- Collaborate with ML Scientists/Engineers to choose, adjust and adapt the most appropriate NN architectures and the right tools.
- Collaborating with curators to improve the quality of the proposed models that best fit our use case: using their experience and knowledge to feed the product roadmap.
- Preparing the evaluation benchmark: set up the right metrics.
- Designing, monitoring, evaluating and maintaining our Computer Vision / Machine Learning project.

Don't hesitate to reach out so we can tell you about our product roadmaps!

📖 Brief State-Of-The-Art

Recently, generative modeling, opened a new hope in the areas of image synthesis and unsupervised learning. Undoubtedly, Generative Adversarial Networks (GAN) presented by Goodfellow et al. [1] is the most interesting and the most promising approach. Theoretically, GANs take an initially supervised learning tasks and convert them to unsupervised learning tasks by generating fake or synthetic looking data.

GANs helped to bring out many applications in the computer vision and graphics fields such as image blending [2], face aging [3], human pose synthesis [4], image manipulation applications [5], facial landmark detection [6] etc.

Despite the fact that these works produce effective and impressive image generators capable of synthesizing a diverse set of styles at high realism with explicit controls over attributes [7, 8, 10], modeling complex distributions of datasets such as real-scene images or art pieces remains difficult in unconditional configurations.

In Artinity, we are addressing this issue.
You?

Technical skills & knowledge

- Experience in developing at least one significant (academic) project in the computer vision, machine learning, and deep learning fields
- Good technical proficiency in one or many programming languages (e.g. Python)
- Curiosity on various programming paradigms
- Basic knowledge of data structures and algorithms

Background & mindset

✅ You have a scientific and engineering mindset
✅ You love communicating and expressing your ideas and thoughts
✅ You value work and self-improvement over diplomas and resumes
✅ You are self-driven while working in a team

Last few words...

This is a unique opportunity whereby, as an intern, you will have the chance to learn several aspects about Computer Vision and the industrialization of a research project and to reinvent our industry.

Contact

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References:


[9] Yabo Dan, Yong Zhao, Xiang Li, Shaobo Li, Ming Hu & Jianjun Hu, "Generative adversarial networks (GAN) based efficient sampling of chemical composition space for inverse design of inorganic materials", Nature, Article number: 84 (2020)