

Generating "Dalah" in art Arabic decorative and Islamic Calligraphy and its patterns.

Inspiration

"Dalah"

Dalah (coffee pot) is a distinctive symbol that represents the Arab bedouin civilization, especially the Saudi civilization, a guide that expresses its interior and appearance with our original Bedouins. It is the meaning of cohesion and societal strength. We gathered "Dalah" with art in Islamic Arabic inscriptions and calligraphy to generate a new distinctive pattern.

Team's Bio:

The artists behind this artwork are Nuha Alanezi, Bushra Alzahrani, and Aljuhrah Alyemni, who share a strong interest in digital art generation and AI. Nuha is an AI developer, data scientist, experienced digital designer, programmer, and designer.

Bushra is an AI developer, data scientist, and programmer. Aljuhrah is an AI developer, data scientist, and programmer. Nuha has also worked great with sketching and she utilizes Adobe's creative digital tools like Adobe Illustrator and Photoshop. All teams are professional with python language.

Project AI Description

The video is a documentation of the actual artwork, and it is interactive. The actual artwork consists of a coffee pot (Dalah) drawn with Islamic Arabic inscriptions, the Dalah is sent to the algorithm. The algorithm detects the pattern type and the shape of the guide to produce a new pattern based on these two components, which is generated by the VQGAN and CLIP models, ImageNet 1024 and 16384 models, torch, and argparse libraries, neural network model.

Tools

- ImageNet 1024 and 16384 models.
- VQGAN and CLIP models.
- Google Colab.
- Python language.
- Torch and argparse libraries.
- Neural Network &ML model.

Project Art Description

The dataset of the drawn images of a coffee pot has been digitally drawn by the artist's team. The artists created 6 different patterns of Dalah shapes with different patterns of Arabic and Islamic inscriptions to make it easier for the machine to learn to create cool new patterns.

The graphic style and background are inspired by the civilization of Saudi Arabia.