AI and Generative Art

Abstract

This document explores DeepAI's text-to-image generator to see if it can handle unrealistic/uncommon situations. The first image generation task's sentence was crafted using a grammar, while the second image generation task's sentence was crafted using my stream of consciousness. Both image generations feature the resultant image from DeepAI, as well as my reactions to the output. The last part of this document consists of a reflection where I analyze the positives and negatives of the "art" produced by DeepAI's text-to-image generator.

First Image Generation Task

1. The baby hugged the dancing robot
2. The generated image

3. I used [DeepAI](#)'s text to image generator to generate the photo. In order to produce this image, I had to type in a prompt in a text box, followed by choosing a style – "text to image generator" and clicking the "Generate" button to complete the process. While it is impressive that the AI was able to incorporate some of the nouns of the input text phrase, there are very obvious signs on the image that indicate an AI created it. For one thing, the child's face is visibly smeared and does not look realistic. Additionally, something weird happened to the child's arm – it seems that she is part robot, which is bizarre. The incorporation of a baby and robot in the same image is intriguing. The same can be said of the realistic nature of the background and clothing of the child holding the baby.

Second Image Generation Task

1. A cat skateboarding on the Eiffel Tower
2. The generated image

3. Once again, I used DeepAI's text to image generator to generate the photo. In order to produce this image, I had to type in a prompt in a text box, followed by choosing a style – "text to image generator" and clicking the "Generate" button to complete the process. My first reaction to this image is: "What happened to the cat?" It does not have a head, and seems to only have three legs. Additionally, the tail is not attached to the cat and instead has fused with the Eiffel Tower. The next bizarre aspect of this photo is the fact that there are two Eiffel Towers in the picture, one of which the mangled cat resides on. I figured the above sentence would be a difficult one to picture; I cannot picture the scenario myself. This whole image looks like a poor photo-shop job with questionable image manipulation. The only props I will give to the AI is that it did incorporate the nouns once again – both the cat and the Eiffel Tower(x2) made it into the image.

Reflection

The AI image generator does have a good grasp of generating images based on nouns. Both of the images had their nouns – baby, robot, cat, and Eiffel Tower – incorporated in one way another. Additionally, there are some realistic aspects in the photos, like the girl's clothes, the robot, and the background Eiffel Tower. Those look like legitimate images that were photoshopped into the AI image. I think the AI's absurdity can likewise be complimented; the girl with the robot arm is nonsensical, yet intriguing. However, there is a fine line between intrigue and disturbing, as seen with the mangled Eiffel Tower cat.

Overall, I was not very impressed with the images resulting from the AI image generator. They both look like poor photoshop jobs done by a child in art class. The images are not cohesive altogether; the foreground and background seem to blend together due to lack of subject and the lack of blurring background objects. Verbs are not incorporated well at all. The baby is not hugging the robot – although maybe the half-robot half-girl counts – and there is no skateboard to be found in the cat picture. As mentioned before, the AI likes to sprinkle in extra absurdity to already absurd statements, which can ultimately turn disturbing.