

Detecting AI-Generated Images using ResNet

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Abstract

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1 Introduction

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2 Related Work

Related work goes here.

3 Datasets

In order to train a classifier that can distinguish between real and generated images, we need a labeled dataset that consists both of real and generated images for supervised learning. Datasets of this kind is not common, and we'd like to experiment on the latest state-of-the-art image generation AI models, such as DALL·E 2 and Stable Diffusion. We started with real photos from existing public datasets as our raw datasets. Then, we use Diffusers-based image-to-image model to generate images from real photos. This way, we ended up with a labeled dataset of real photos and generated photos.

3.1 Raw Datasets

3.2 Diffusers

3.2.1 CLIP guidance

3.2.2 Stable Diffusion

3.2.3 DALL·E 2

4 Classifier

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5 Experiments

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5.1 Experiment Settings

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5.2 Evaluation Metrics

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6 Experiment Results

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7 Conclusion

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8 Discussion and Future Work

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