

Adversarial Image generation using GANs

By

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What are Adversarial Images?



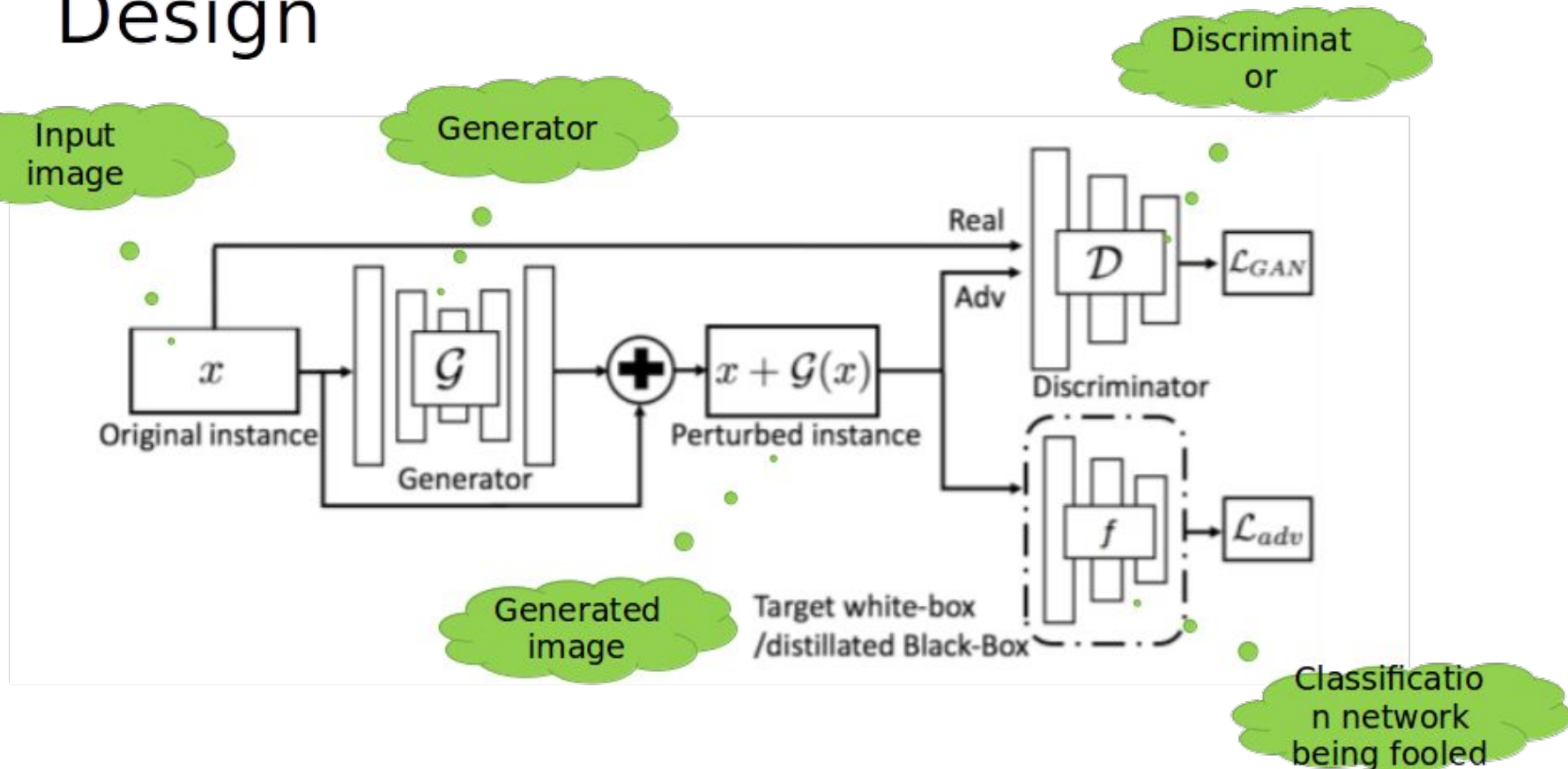
Implementation

- Based on architecture mentioned in -
“*Generating Adversarial examples with adversarial networks*” (Anonymous Authors, ICLR 2018 submissions)
- Implemented and trained using **TensorFlow** on **CIFAR10** dataset
- Generates CIFAR10 adversarial images

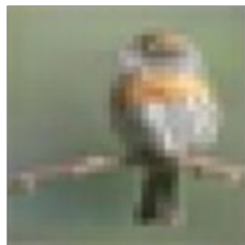
airplane
automobile
bird
cat
deer
dog
frog
horse
ship
truck



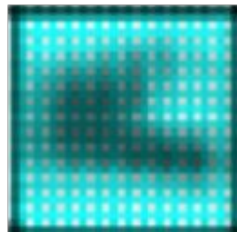
Design



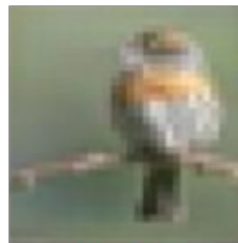
Results



Bird



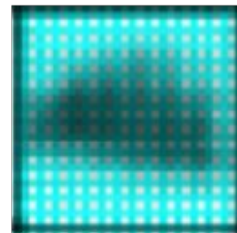
Noise



Cat



automobile



Noise



Bird

	FGSM	Carlini-Wagner	AdvGAN
time	~0.06s	~30s	~0.01s