FGSM Experiments

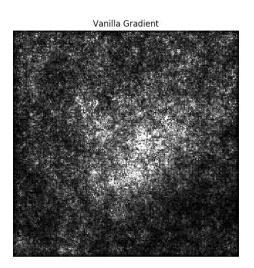
Description: Preliminary Experiment ran on Inception_V3 model. Tests basic FGSM adversarial attacks on images and detects saliency map of each using SmoothGrad.

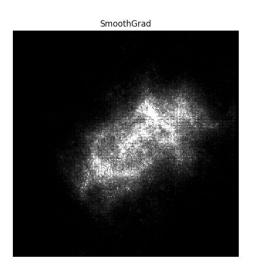
Results: Better results when tested on images with multiple objects (Indoor/Outdoor images). Classification changes significantly and allows opportunity to create techniques that are robust against those types of images.

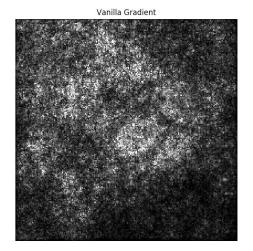
Beetle (<u>left</u>- orig Rhinocerous Beetle, <u>right</u> - fgsm Longhorned Beetle)

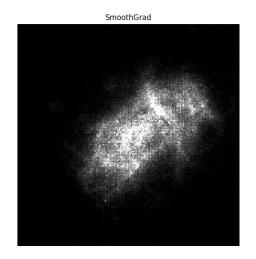


Beetle Gradient (orig top, fgsm bottom)







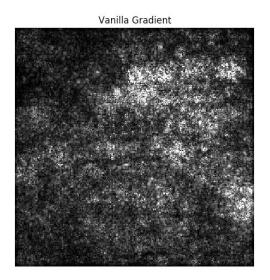


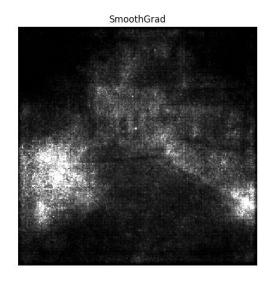
Outdoor (<u>left</u>- orig Patio/Terrace, <u>right</u> - fgsm Park Bench)

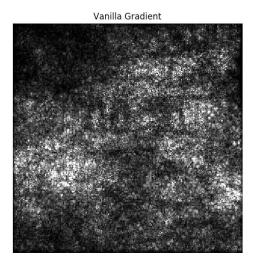


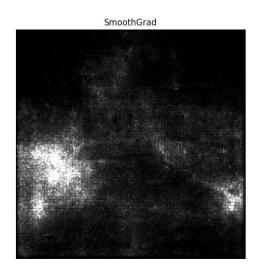


Outdoor Gradient (orig top, fgsm bottom)









Indoor (<u>left</u>- orig Eating Place/Restaurant, <u>right</u> - fgsm Street Car/Trolley Car)



Indoor Gradient (orig top, fgsm bottom)

