```
import numpy as np
from keras.preprocessing import image
from keras.applications import inception v3
from keras import backend as K
from PIL import Image
# Load pre-trained image recognition model
model = inception v3.InceptionV3()
# Grab a reference to the first and last layer of the neural net
model input layer = model.layers[0].input
model output layer = model.layers[-1].output
# Choose an ImageNet object to fake
# The list of classes is available here: https://gist.github.com/ageitgey/4e1342c10
# Class #859 is "toaster"
object type to fake = 859
# Load the image to hack
img = image.load_img("/content/drive/My Drive/panda.jpg", target_size=(299, 299))
original image = image.img to array(img)
# Scale the image so all pixel intensities are between [-1, 1] as the model expect:
original image /= 255.
original image -= 0.5
original image *= 2.
# Add a 4th dimension for batch size (as Keras expects)
original image = np.expand dims(original image, axis=0)
# Pre-calculate the maximum change we will allow to the image
# We'll make sure our hacked image never goes past this so it doesn't look funny.
# A larger number produces an image faster but risks more distortion.
max change above = original image + 0.01
max change below = original image - 0.01
# Create a copy of the input image to hack on
hacked_image = np.copy(original_image)
# How much to update the hacked image in each iteration
learning rate = 0.1
# Define the cost function.
# Our 'cost' will be the likelihood out image is the target class according to the
cost function = model output layer[0, object type to fake]
# We'll ask Keras to calculate the gradient based on the input image and the currer
# In this case, referring to "model_input_layer" will give us back image we are ha
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Create a Keras function that we can call to calculate the current cost and gradic # K.learning_phase 返回训练模式/测试模式的flag,该flag是一个用以传入Keras模型的标记,以决定当 grab cost and gradients from model = K.function([model input layer, K.learning phase cost = 0.0

In a loop, keep adjusting the hacked image slightly so that it tricks the model I # until it gets to at least 80% confidence iteration = 0while cost < 0.80: # Check how close the image is to our target class and grab the gradients we # can use to push it one more step in that direction. # Note: It's really important to pass in '0' for the Keras learning mode here! # Keras layers behave differently in prediction vs. train modes!

Move the hacked image one step further towards fooling the model hacked_image += gradients * learning_rate

cost, gradients = grab cost and gradients from model([hacked image, 0])

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# Ensure that the image doesn't ever change too much to either look funny or to
hacked image = np.clip(hacked image, max change below, max change above)
hacked image = np.clip(hacked image, -1.0, 1.0)
iteration = iteration + 1
if iteration%10 == 1:
  print("第 %d 次时: " %(iteration))
  print(" Model's predicted likelihood that the image is a toaster: {:.8}%".fo
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print("第 %d 次时,成功" %(iteration)) print(" Model's predicted likelihood that the image is a toaster: {:.8}%".format(co

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Model's predicted likelihood that the image is a toaster: 0.0084656342%

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Model's predicted likelihood that the image is a toaster: 0.017552552%
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Model's predicted likelihood that the image is a toaster: A 0.18318993% https://colab.research.google.com/drive/1SPVO9VD5cU2JmBUkbYH0KxqG93uzg6uq#scrollTo=eFWJ5-kkHYEk

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第 5231 次时:
Model's predicted likelihood that the image is a toaster: 0.018381297%
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Model's predicted likelihood that the image is a toaster: 0.062366424%
第 7821 次时:
Model's predicted likelihood that the image is a toaster: 0.062824669%
第 7831 次时:
Model's predicted likelihood that the image is a toaster: 0.063289638%
第 7841 次时:
Model's predicted likelihood that the image is a toaster: 0.063763733%
第 7851 次时:
Model's predicted likelihood that the image is a toaster: 0.064234255%
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Model's predicted likelihood that the image is a toaster: 0.064701174%
第 7871 次时:
Model's predicted likelihood that the image is a toaster: 0.06517354%
第 7881 次时:
Model's predicted likelihood that the image is a toaster: 0.065651239%
第 7891 次时:
Model's predicted likelihood that the image is a toaster: 0.066137995%
第 7901 次时:
Model's predicted likelihood that the image is a toaster: 0.06662425%
第 7911 次时:
Model's predicted likelihood that the image is a toaster: 0.067118666%
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Model's predicted likelihood that the image is a toaster: 0.068126712%
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Model's predicted likelihood that the image is a toaster: 0.068650453%
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Model's predicted likelihood that the image is a toaster: 0.069182867%
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Model's predicted likelihood that the image is a toaster: 0.070830568%
第 7991 次时:
Model's predicted likelihood that the image is a toaster: 0.071380986%
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Model's predicted likelinood that the image is a toaster: U.U/1932409%
第 8011 次时:
Model's predicted likelihood that the image is a toaster: 0.072491728%
第 8021 次时:
Model's predicted likelihood that the image is a toaster: 0.073057914%
第 8031 次时:
Model's predicted likelihood that the image is a toaster: 0.073617999%
第 8041 次时:
Model's predicted likelihood that the image is a toaster: 0.074184663%
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Model's predicted likelihood that the image is a toaster: 0.074754847%
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Model's predicted likelihood that the image is a toaster: 0.076474564%
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Model's predicted likelihood that the image is a toaster: 0.081342563%
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Model's predicted likelihood that the image is a toaster: 0.082007167%
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Model's predicted likelihood that the image is a toaster: 0.082689314%
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Model's predicted likelihood that the image is a toaster: 0.083385472%
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Model's predicted likelihood that the image is a toaster: 0.08408773%
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Model's predicted likelihood that the image is a toaster: 0.084799126%
第 8221 次时:
Model's predicted likelihood that the image is a toaster: 0.085523177%
第 8231 次时:
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第 8241 次时:
Model's predicted likelihood that the image is a toaster: 0.087052456%
第 8251 次时:
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第 8261 次时:
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第 8301 次时:
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Model's predicted likelihood that the image is a toaster: 0.092832127%
第 8321 次时:
Model's predicted likelihood that the image is a toaster: 0.093707396%
第 8331 次时:
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第 8501 次时:
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第 8631 次时:
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第 8641 次时:
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第 8691 次时:
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第 8701 次时:
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第 8931 次时:
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第 8941 次时:
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第 9001 次时:
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第 9011 次时:
Model's predicted likelihood that the image is a toaster: 0.24228788%
第 9021 次时:
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第 9221 次时:
Model's predicted likelihood that the image is a toaster: 0.4225865%
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Model's predicted likelihood that the image is a teaster. A 120/A0020
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第 9241 次时:
     Model's predicted likelihood that the image is a toaster: 0.45712092%
    第 9251 次时:
     Model's predicted likelihood that the image is a toaster: 0.47630728%
    第 9261 次时:
     Model's predicted likelihood that the image is a toaster: 0.49720868%
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    第 9291 次时:
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    第 9301 次时:
     Model's predicted likelihood that the image is a toaster: 0.60144709%
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     Model's predicted likelihood that the image is a toaster: 0.63345535%
    第 9321 次时:
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    第 9331 次时:
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     Model's predicted likelihood that the image is a toaster: 2.1439159%
    第 9421 次时:
     Model's predicted likelihood that the image is a toaster: 3.653023%
    第 9431 次时:
     Model's predicted likelihood that the image is a toaster: 11.661687%
    第 9438 次时,成功
     Model's predicted likelihood that the image is a toaster: 92.885023%
# De-scale the image's pixels from [-1, 1] back to the [0, 255] range
img = hacked_image[0]
img /= 2.
img += 0.5
img *= 255.
# Save the hacked image!
im = Image.fromarray(img.astype(np.uint8))
im.save("hacked-image.png")
```