```
def integratedGradients(model, X, Xbase, Steps=50):
 I \cdot I \cdot I
model: Keras (Tensorflow backend) model
X: Input vector ~ True image
 Xbase: Baseline Vector
 Steps: How close do you want to approximate integral
 1.1.1
 # Initialize
X_new = X-Xbase # Construct (X-X') term
 funcinp = []
 # Construct Function Inputs
 for i in range(Steps):
     # Sum over input to F(x): x'+(k/m)*(X'-X)
     temp = X_new*(float(i)/Steps)+Xbase
     funcinp.append(temp)
# Calculate Gradients with TensorFlow backend
xx = model.inputs[0]
 f = model(xx)
 df_dx = tf.gradients(f,xx)
# Feed in data to input tensor F(temp)
 a = sess.run(df_dx, feed_dict={xx:funcinp})
 # Riemann Sum
 summate = [sum(i) for i in zip(*a[0])]
 # Multiply by constant (1/m)
 avg = np.asarray(summate)*(1./Steps)
 # Multiply each value by (X-X') term
 ig = [avg[i]*X_new[i] for i in range(len(avg))]
 return ig
```

Other Approaches

Pattern Net



Influence Functions



Explainable Soft Decision Tree

