Homework 6

Due: 2021-11-24 (Wed.) 8pm

Introduction

In this assignment, you will also explore methods for visualizing the features of a pretrained model on ImageNet.

- Explore various applications of image gradients, including saliency maps, fooling images, class visualizations

• Setup

- **Start IPython**

  you should start the IPython notebook from the homework_6 directory, with the jupyter notebook command.

• Experiments

There are ### START CODE HERE/### END CODE HERE tags denoting the start and end of code sections you should fill out. Take care to not delete or modify these tags, or your assignment may not be properly graded.

- **Q1: Network Visulization (50 points)**
  The Jupyter notebooks NetworkVisualization-PyTorch.ipynb will introduce the pretrained SqueezeNet model, compute gradients with respect to images, and use them to produce saliency maps and fooling images.
- **See the code file for details.**

• Submission

You need to accomplish the following files:

1) Convolutional Neural Networks

- NetworkVisualization-PyTorch.ipynb

2) Report

- Please convert your experiment report to PDF format.
- You just need to upload all your code and report and do not upload datasets.