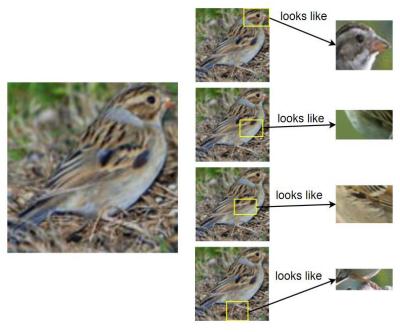
This Looks Like That... Does it? Shortcomings of Latent Space Prototype Interpretability in Deep Networks

Are Deep Interpretable Networks Always Interpretable?

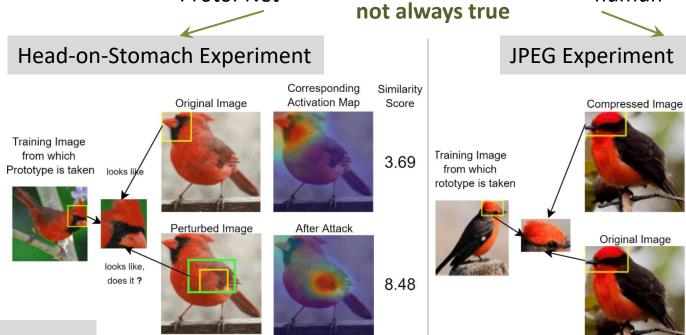
Prototypical Part Networks



Defining Interpretability for ProtoPNets

Interpretablility holds i.f.f.

Two image patches look similar to a ⇔ Two image patches look similar to a ProtoPNet human



Key Takeaways:

- Use interpretable architectures like ProtoPNets, with caution
 - Interpretations might not faithfully convey the network's underlying reasoning process
 - Be aware of different types of noise in dataset when collecting data from different sources



Activation Map of

Compressed Image

Activation Map of

Original Image

5.18

1.68