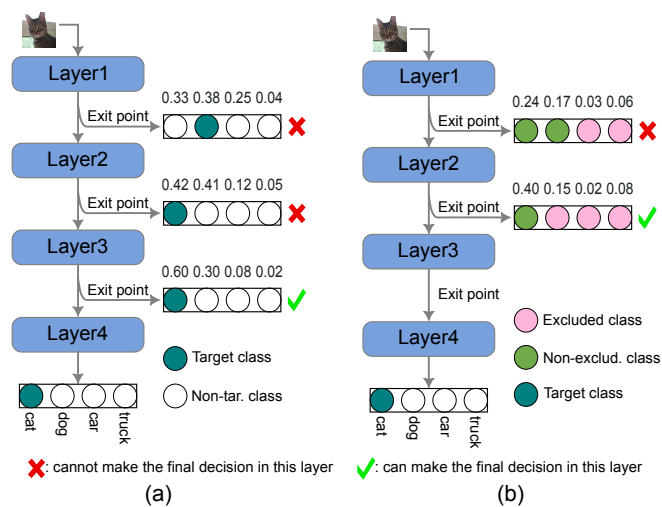


Explaining Neural Networks with Dynamic Inference

In this master thesis, dynamic neural networks with early-exit in the following figure will be explored to explain neural networks. Specifically, a dynamic neural network with each layer an early-exit point is constructed and trained. Afterwards, various input images will be fed into the dynamic network to determine at which layer the images can be classified. Typically, difficult images can only exit at later layers and easy images can exit at shallow layers. Difficult images will be examined to figure out why they cannot exit at shallow layers. After that, they will be modified with techniques to make them exit early. Further techniques such as generative adversarial networks may also be explored to generate images that can exit early.



Dynamic inference with early-exit

If you are interested in this topic for master thesis, please contact:

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