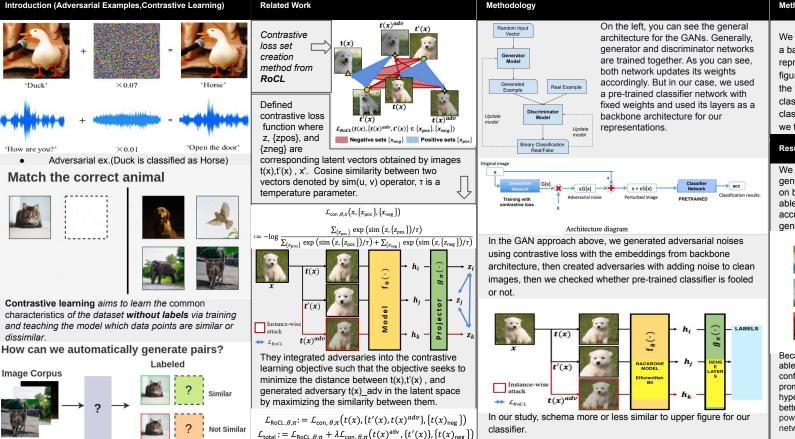


Self-Supervised Learning with Adversarial Examples

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Methodology

We used Efficient-Net B0 architecture as a backbone model for our representations namely h vectors in the figure. We also added dense layers at the top of the backbone model for classifying into labels. After training the classifier model for CIFAR10 dataset. we freeze the classifier model.

Results & Future Work

We trained our classifier before the generator training up to 88% accuracy on both training and test set. We were able to decrease the classifier's accuracy by 5 % with 10 epochs generator training. Some attacks below:













able to experiment small set of configurations but our study achieved promising results. With a better hyper-parameter optimization procedure better results can be achieved. Despite powerful attacks, using them for a robust network is another topic to study in future.