Kaggle Competition

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**Implementation of the model**

**Results (Model performance + best model)**

**Whoever got the best model should probably write that**

**Challenges**

**Conclusion (what we learned)**

**How to use a new library (Keras)**

**Individual Contribution**

Stephen (Pre-Trained):

Tomer (CNN):

Lin (Preprocessing):

**I wrote a denoising autoencoder using keras inspired from models I found online. I trained my model using a set training images with the obvious noise removed and another set with more noise added on. Using it along with Tomer’s CNN, it got a 92% accuracy on the training set, but only 48% on the test set. Then, I tried using convolutional filters hoping each filter could make some features of the image stand out. I trained three models of that CNN on training images that were sharpened, blurred, and both and then carried out a vote to gather the final results. The training accuracy of each models was around 94%, but the test accuracy dropped down to 60%.**