

Preventing Overfitting

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- a model so tuned to the specifics of the training data that it is unable to generalize to new example
- Data augmentation
 - artificial boosting the diversity and number of training examples by performing random transformations to existing images to create a set of new variants
 - useful when the original training data set is small
- Dropout Registration
 - Randomly removing units from the neural network during a training gradient step

Leveraging Pretained Models

- Retrieving intermediate representations produced by the pretrained model, and then feeding these representations into a new model as input
- fine tune weight parameters applied to the extracted features