

ImageNet Classification with Deep Convolutional Neural Networks

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Our results on ILSVRC-2010 are summarized in Table 1.

Table 1: comparison of results on ILSVRC-2010 test set.

model	top-1	top-5
sparse coding	47.1%	28.2%
SIFT+FVs	45.7%	25.7%
CNN	37.5%	17.0%

Our network achieves top-1 and top-5 test set error rates of 37.5% and 17.0%. The best performance achieved during the ILSVRC-2010 competition was 47.1% and 28.2% with an approach that averages the predictions produced from six sparse-coding models trained on different features, and since then the best published results are 45.7% and 25.7% with an approach that averages the predictions of two classifiers trained on Fisher Vectors (FVs) computed from two types of densely-sampled features.