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SESSION 4 - RECEPTIVE FIELDS & NETWORK ARCHITECTURES

Introduction
Image classification
Parameterized mapping
Loss function
Optimization
Activation functions
Preprocessing, weight initialization, regularization, learning rate
Hyperparameter search
Updates, ensembles, dropout
Convolutional neural networks (CNNs)
Visualizing CNNs
Backpropagation, partial derivatives, gradients
Neural networks part 1: setup data/loss
Neural networks part 2: learning
Neural networks part 3: ConvNet details
Recurrent Neural Networks

LATELY ON CS231N

Top 5 ImageNet classification error. Human performance is at around 5.1%.

Top 5 ImageNet classification error on a subset of classes.

RECEPTIVE FIELDS WORK THEM TO MEAN WORK

Let's start with a question:

Let's begin with the case of a fully-connected layer: