

Fundamentals of Deep Learning

Part 5: Pre-trained Models

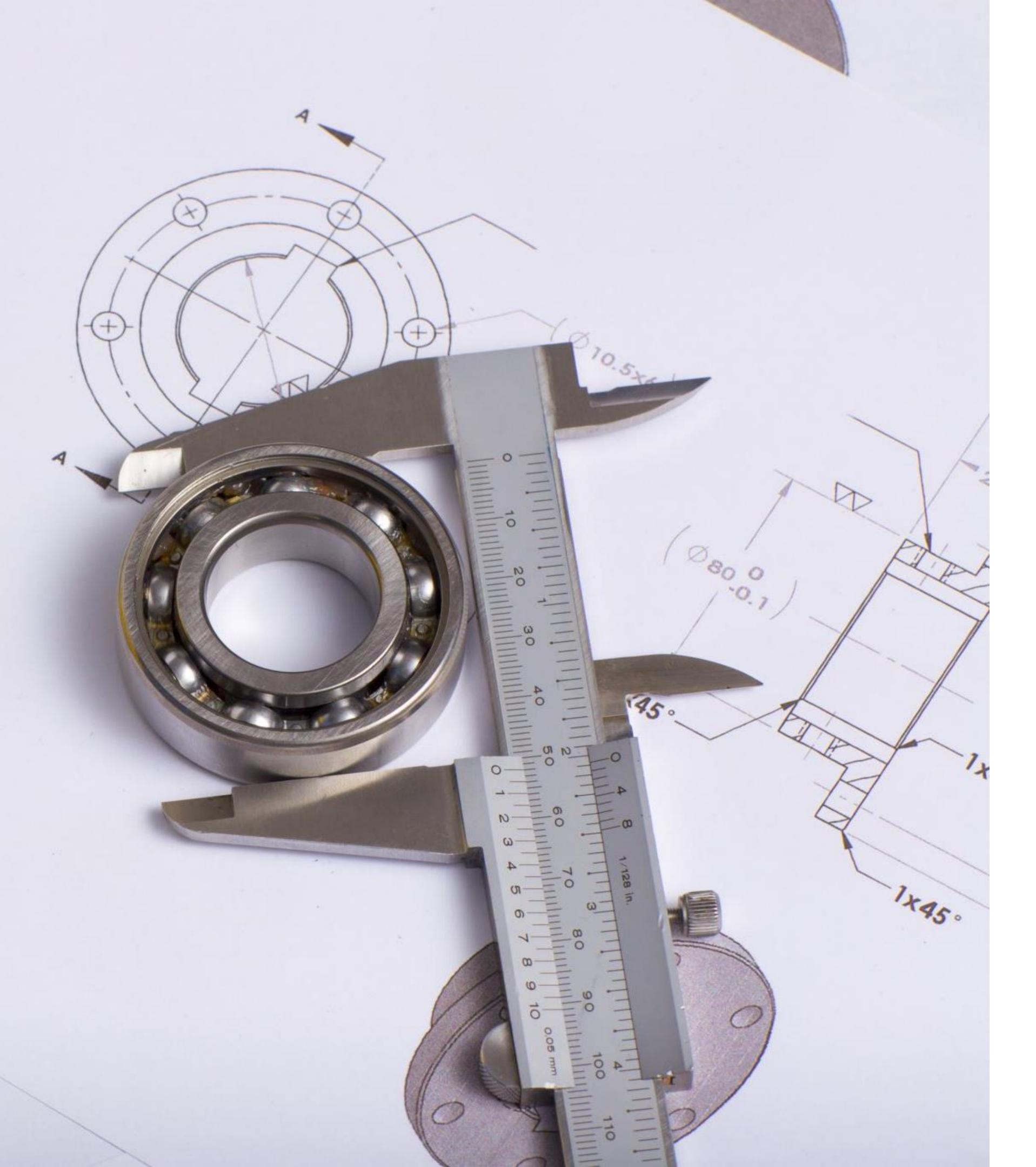


Agenda

- Part 1: An Introduction to Deep Learning
- Part 2: How a Neural Network Trains
- Part 3: Convolutional Neural Networks
- Part 4: Data Augmentation and Deployment
- Part 5: Pre-Trained Models
- Part 6: Advanced Architectures







Review So Far

- Learning Rate
- Number of Layers
- Neurons per Layer
- Activation Functions
- Dropout
- Data





Pre-Trained Models





PYICH CH HUB



Pre-Trained Models

VERY DEEP CONVOLUTIONAL NETWORKS FOR LARGE-SCALE IMAGE RECOGNITION

Karen Simonyan* & Andrew Zisserman*

Visual Geometry Group, Department of Engineering Science, University of Oxford {karen, az}@robots.ox.ac.uk

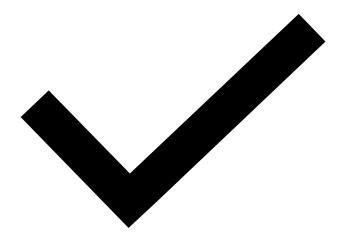




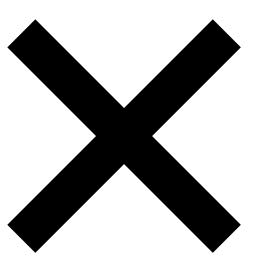
The Next Challenge

An Automated Doggy Door









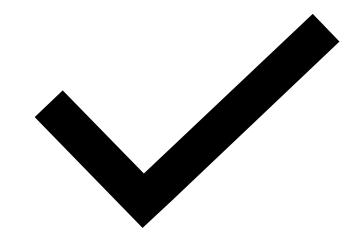




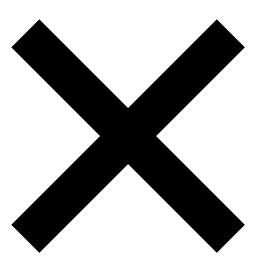
The Challenge After

An Automated Presidential Doggy Door

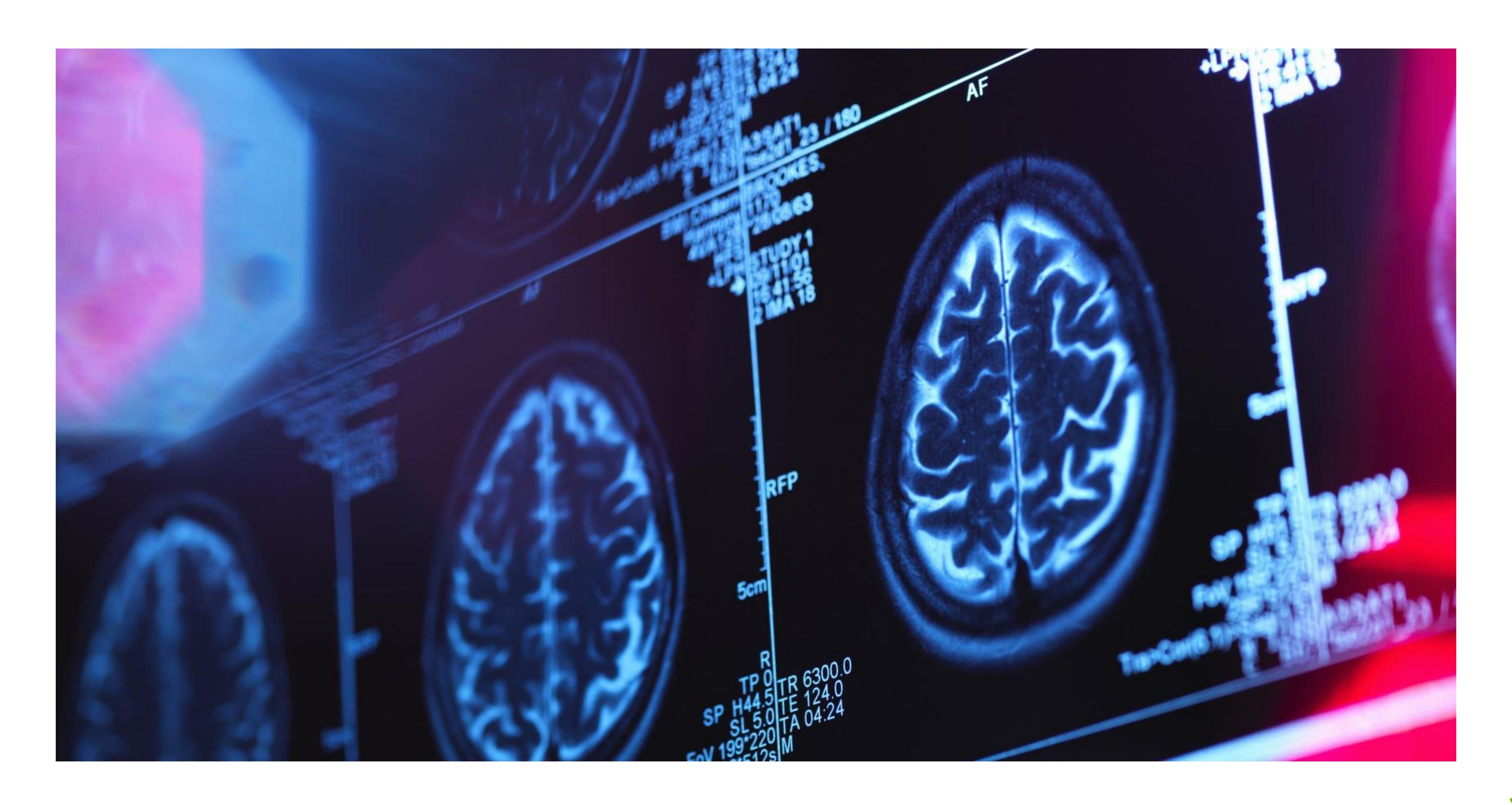


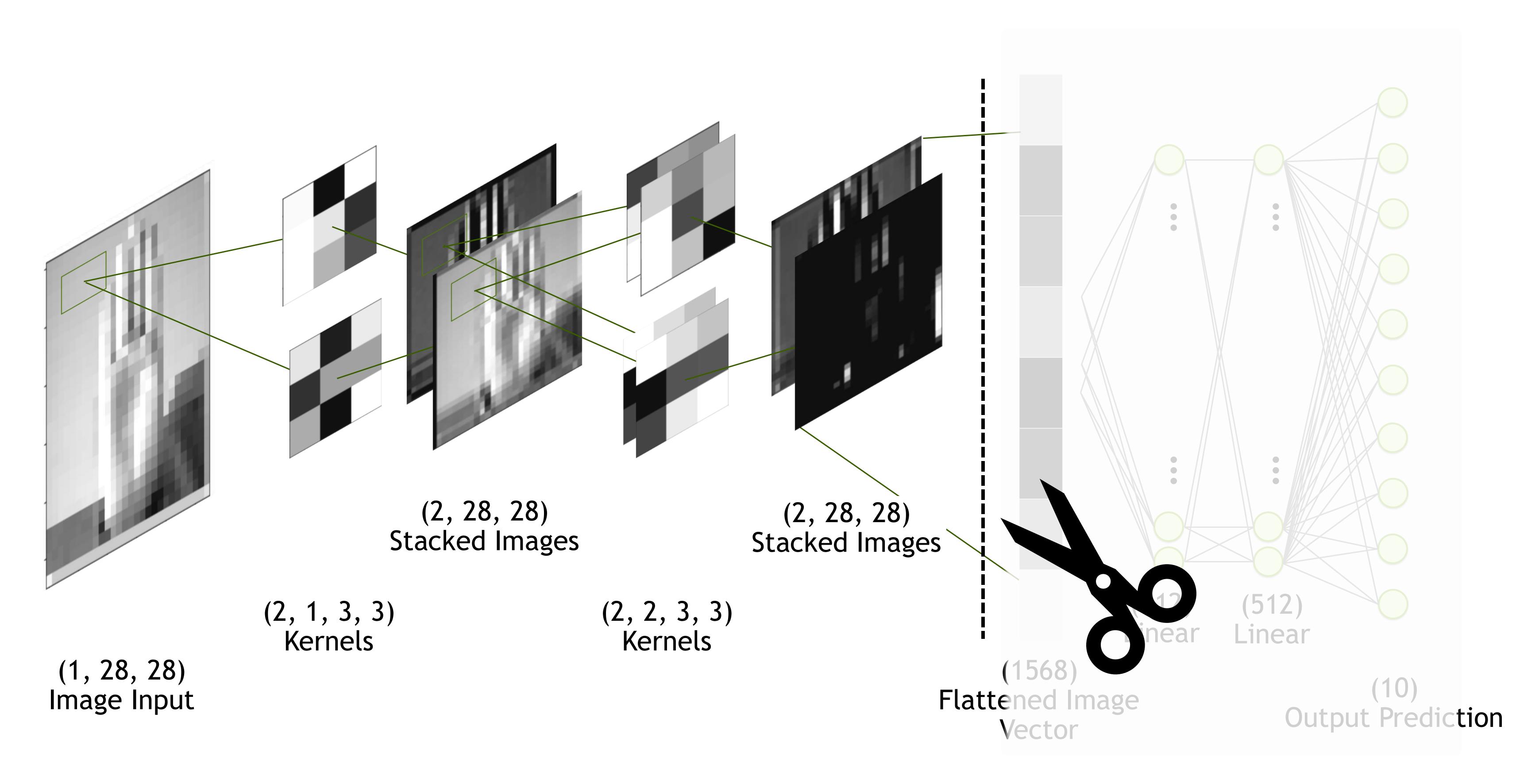




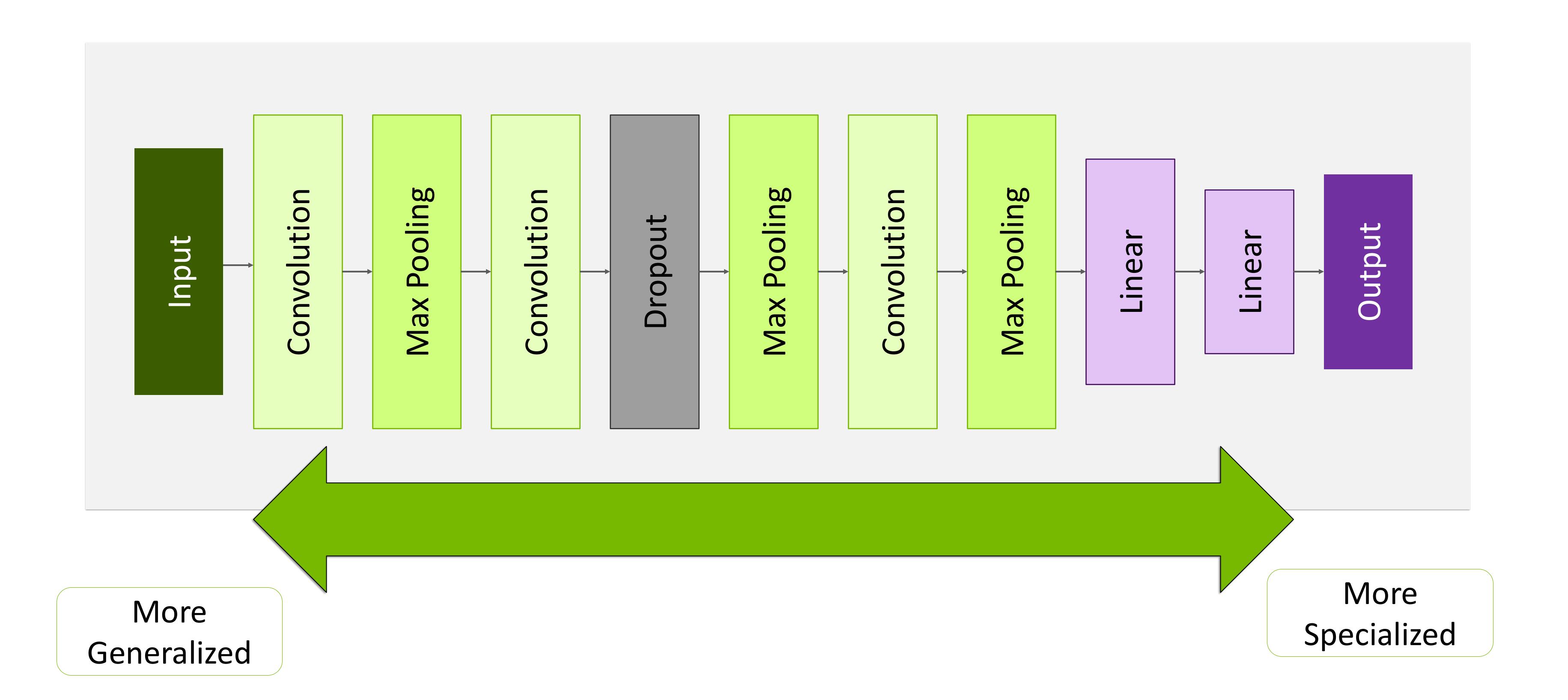














Freezing the Model?









