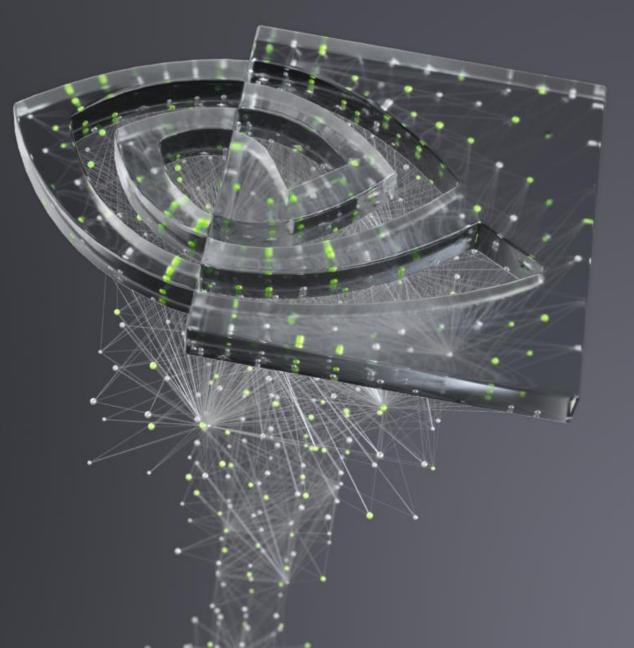


FUNDAMENTALS OF DEEP LEARNING

Part 5: Pre-trained Models

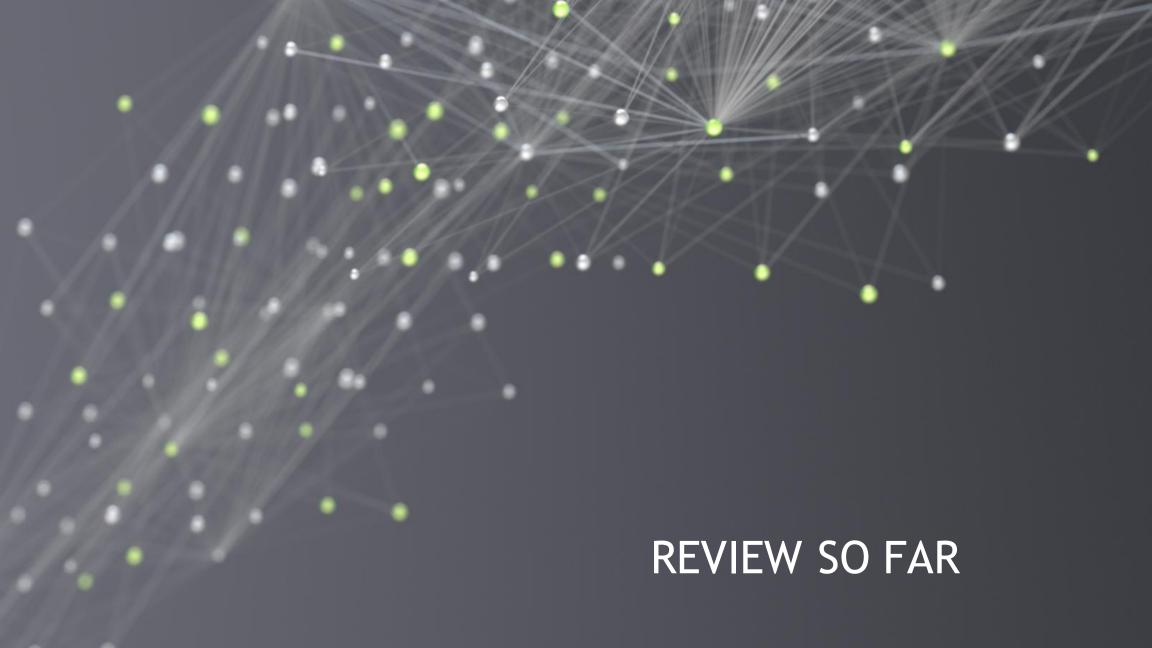


AGENDA

Part I: 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

AGENDA – PART 5

- Review so far
- Pre-trained Models
- Transfer Learning



REVIEW SO FAR



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



PRE-TRAINED MODELS

TensorFlow Hub





PYTORCH HUB

PRE-TRAINED MODELS

VERY DEEP CONVOLUTIONAL NETWORKS FOR LARGE-SCALE IMAGE RECOGNITION

Karen Simonyan* & Andrew Zisserman⁺

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THE NEXT CHALLENGE

An Automated Doggy Door











THE CHALLENGE AFTER

An Automated Presidential Doggy Door

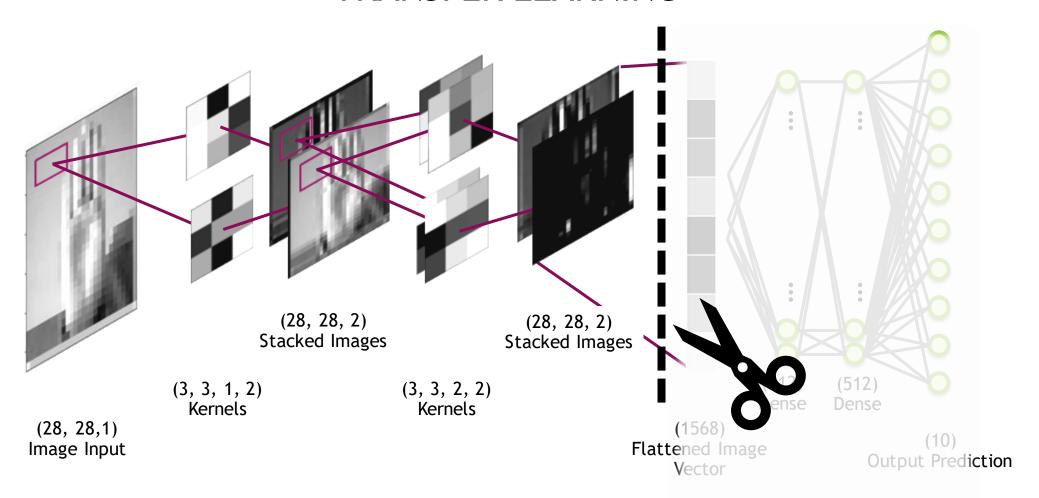


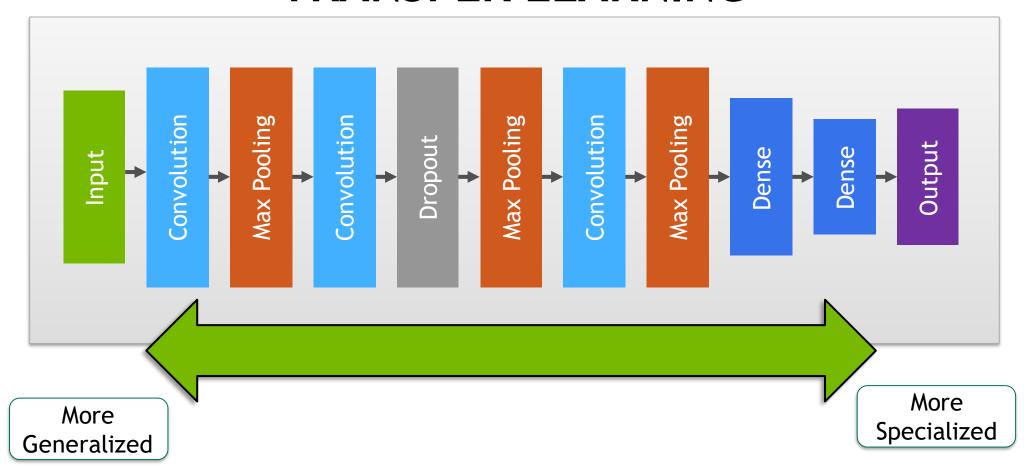












Freezing the Model?











