

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
- Pre-trained Models
- Transfer Learning



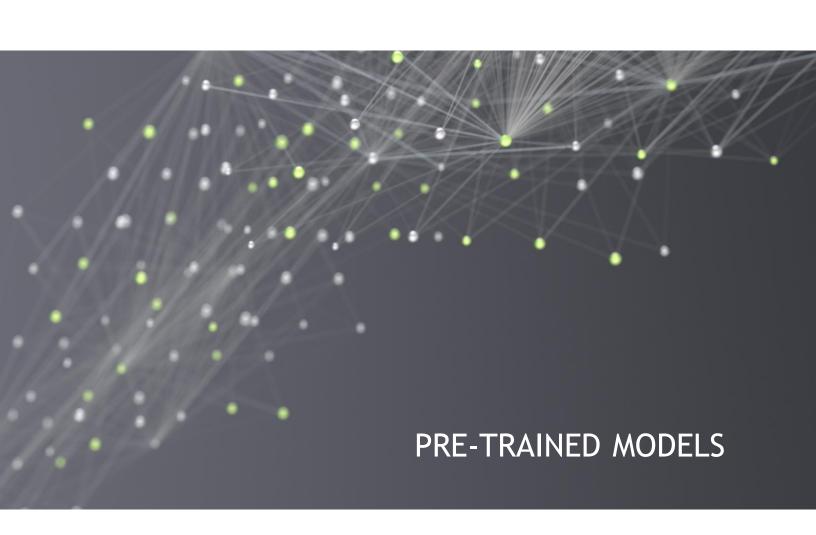
REVIEW SO FAR



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

DEEP LEARNING INSTITUTE

- Dropout
- Data



PRE-TRAINED MODELS

TensorFlow Hub









PRE-TRAINED MODELS

VERY DEEP CONVOLUTIONAL NETWORKS FOR LARGE-SCALE IMAGE RECOGNITION

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THE NEXT CHALLENGE

An Automated Doggy Door

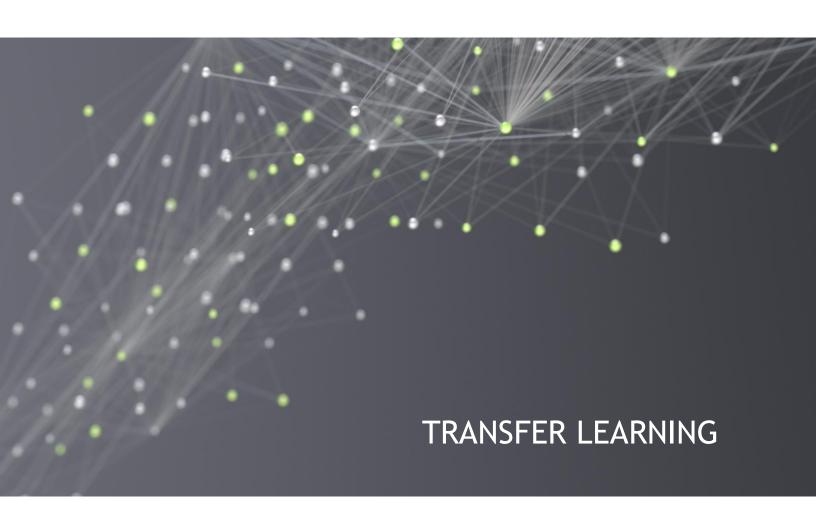












THE CHALLENGE AFTER An Automated Presidential Doggy Door





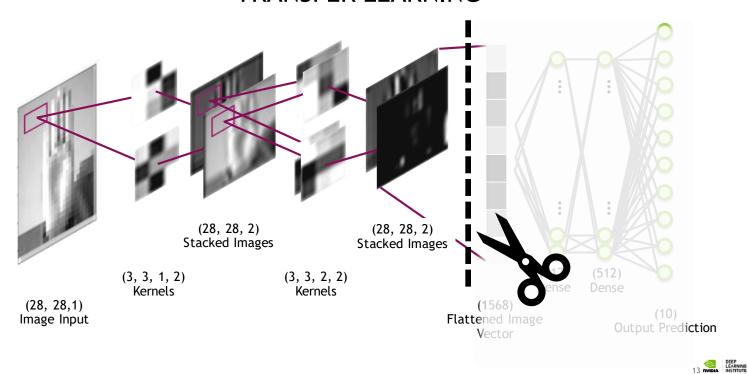




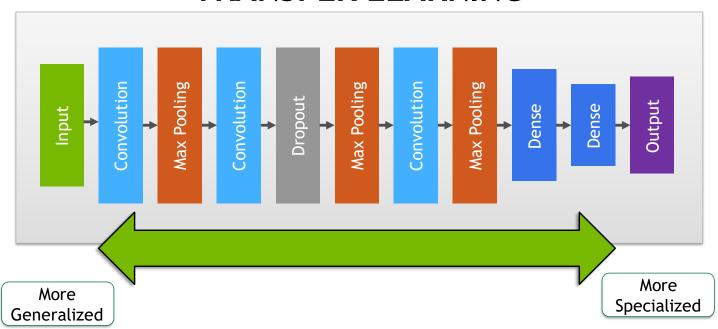
TRANSFER LEARNING



TRANSFER LEARNING



TRANSFER LEARNING



TRANSFER LEARNING

Freezing the Model?





TRANSFER LEARNING







