

Fundamentals of Deep Learning

Part 5: Pre-trained Models

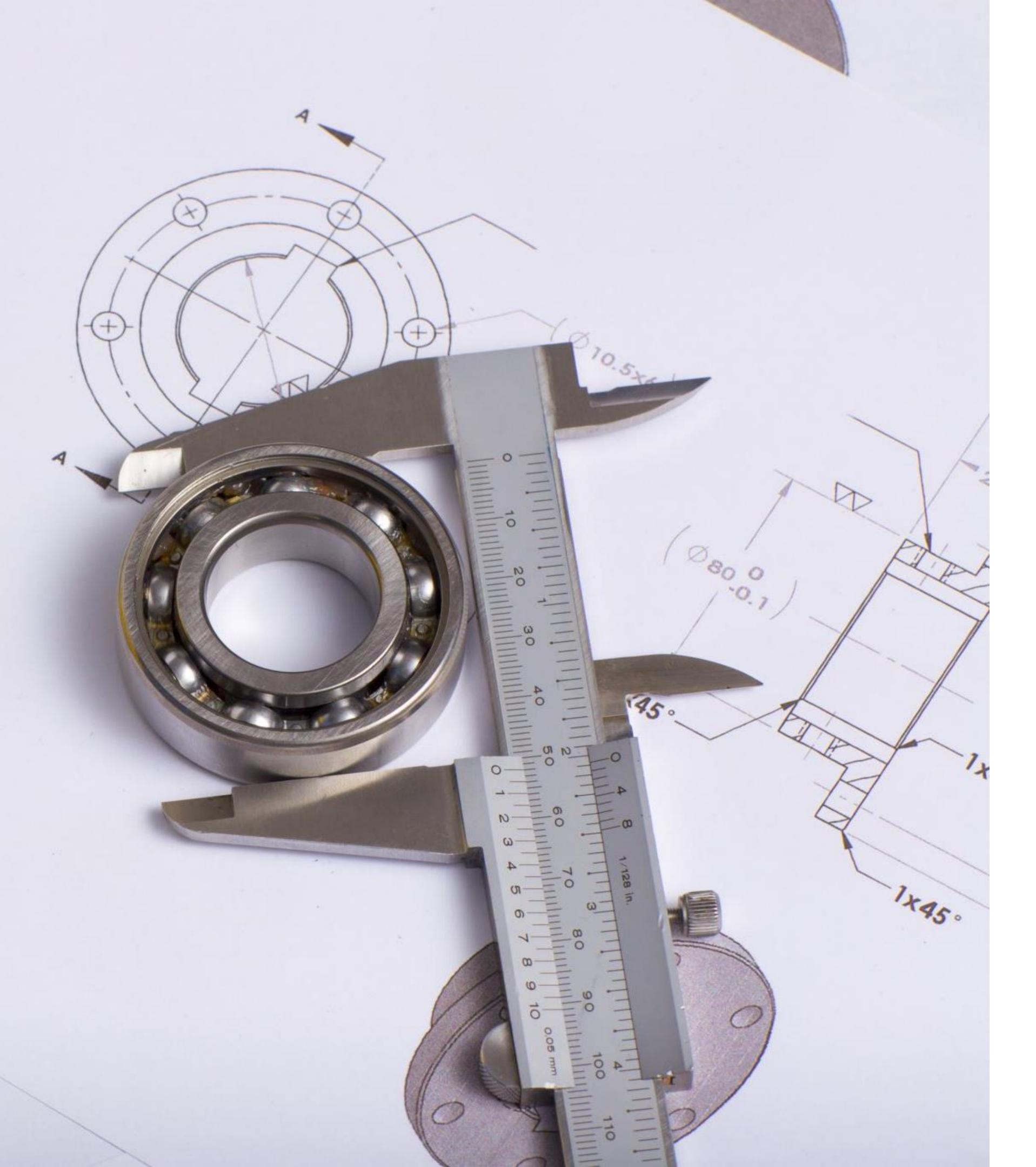


Agenda

- 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





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Pre-Trained Models

VERY DEEP CONVOLUTIONAL NETWORKS FOR LARGE-SCALE IMAGE RECOGNITION

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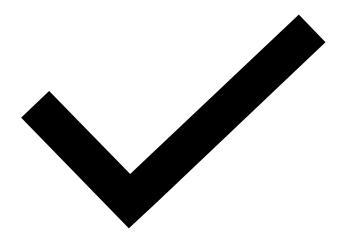


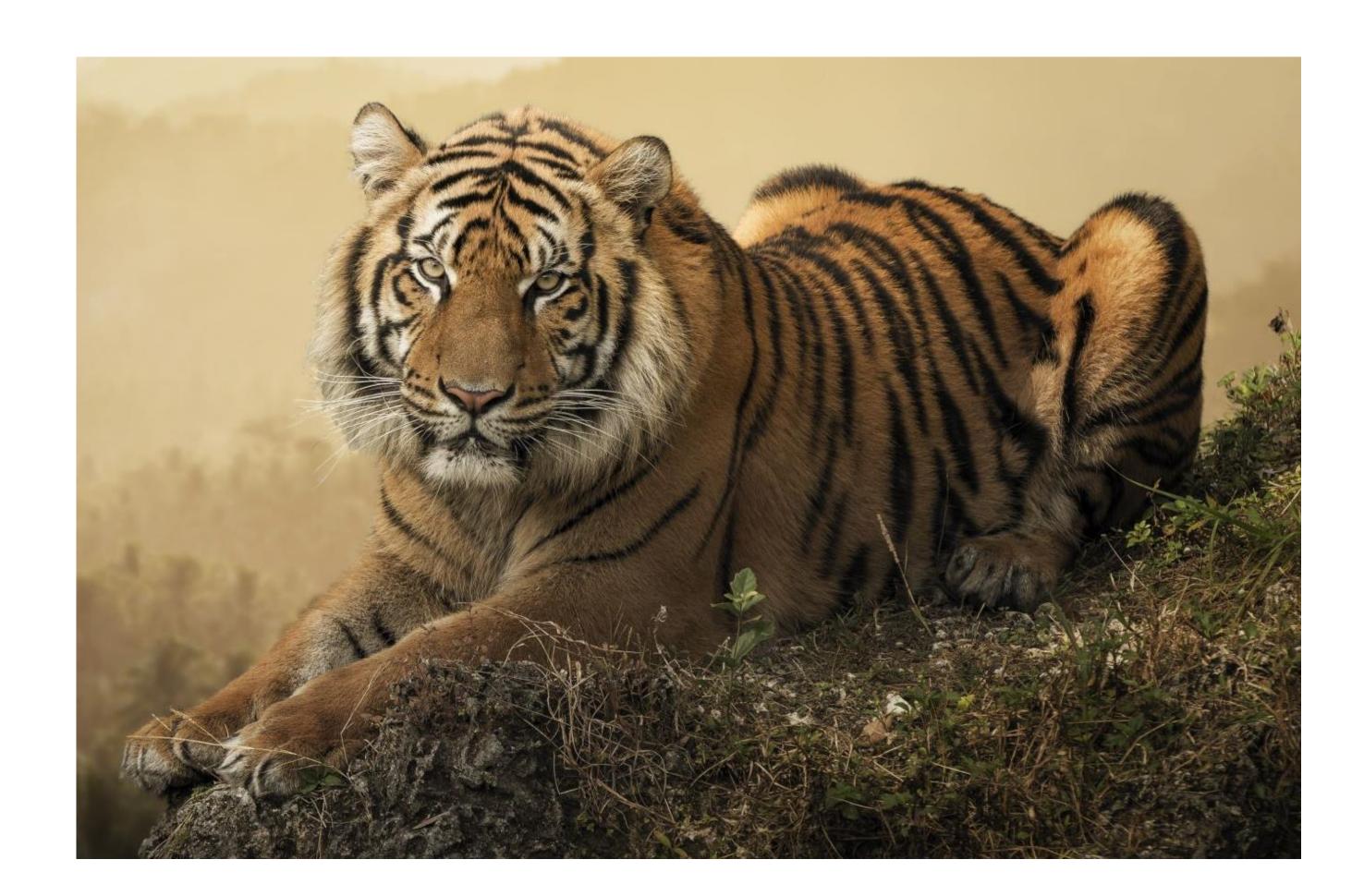


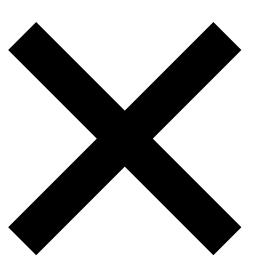
The Next Challenge

An Automated Doggy Door









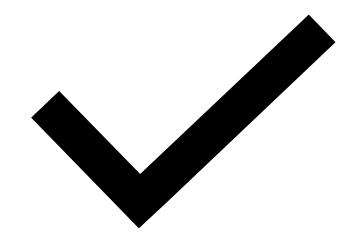




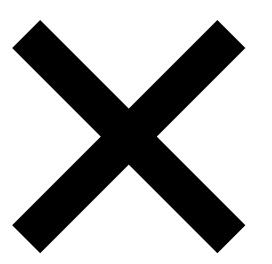
The Challenge After

An Automated Presidential Doggy Door

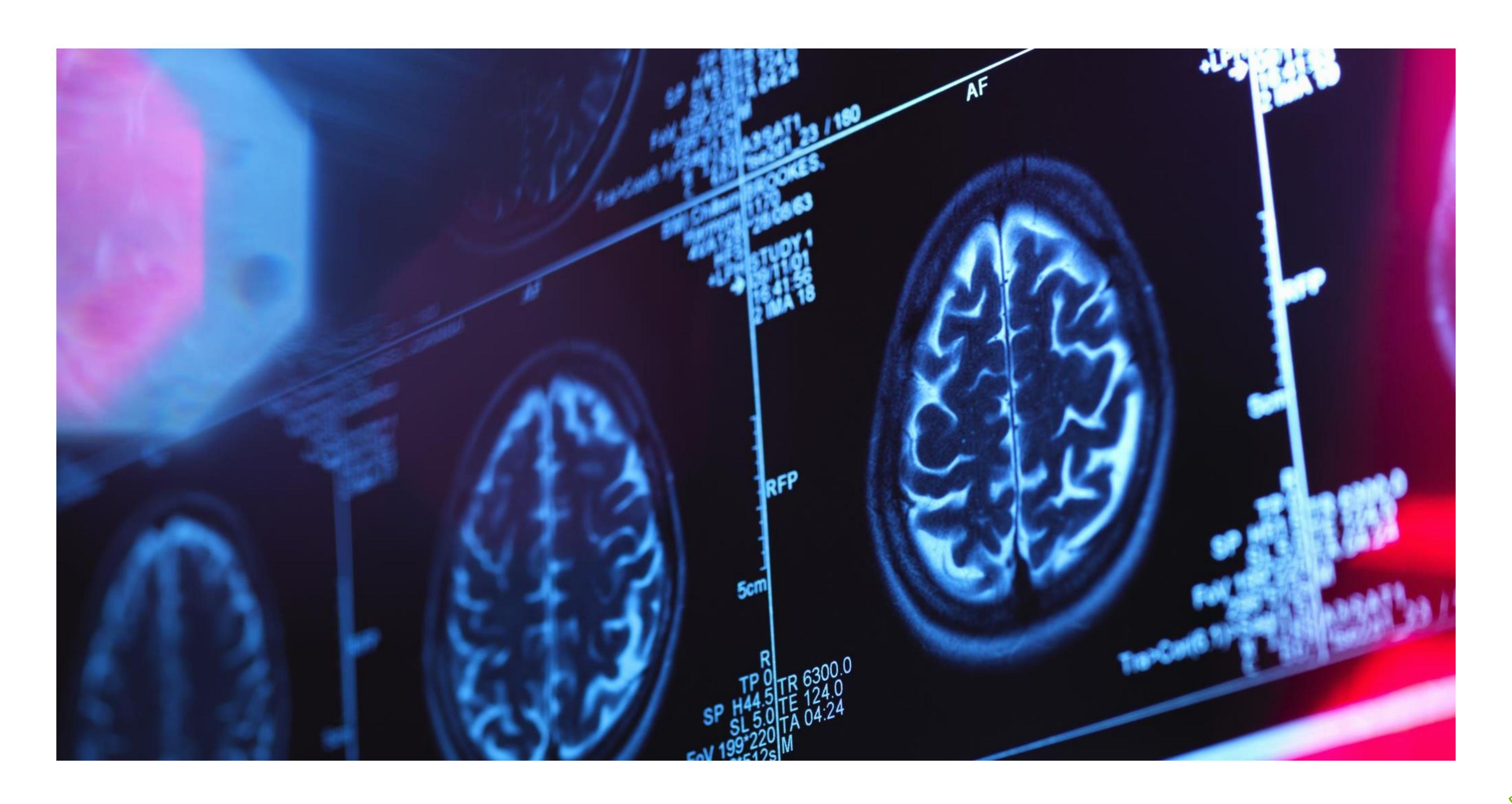




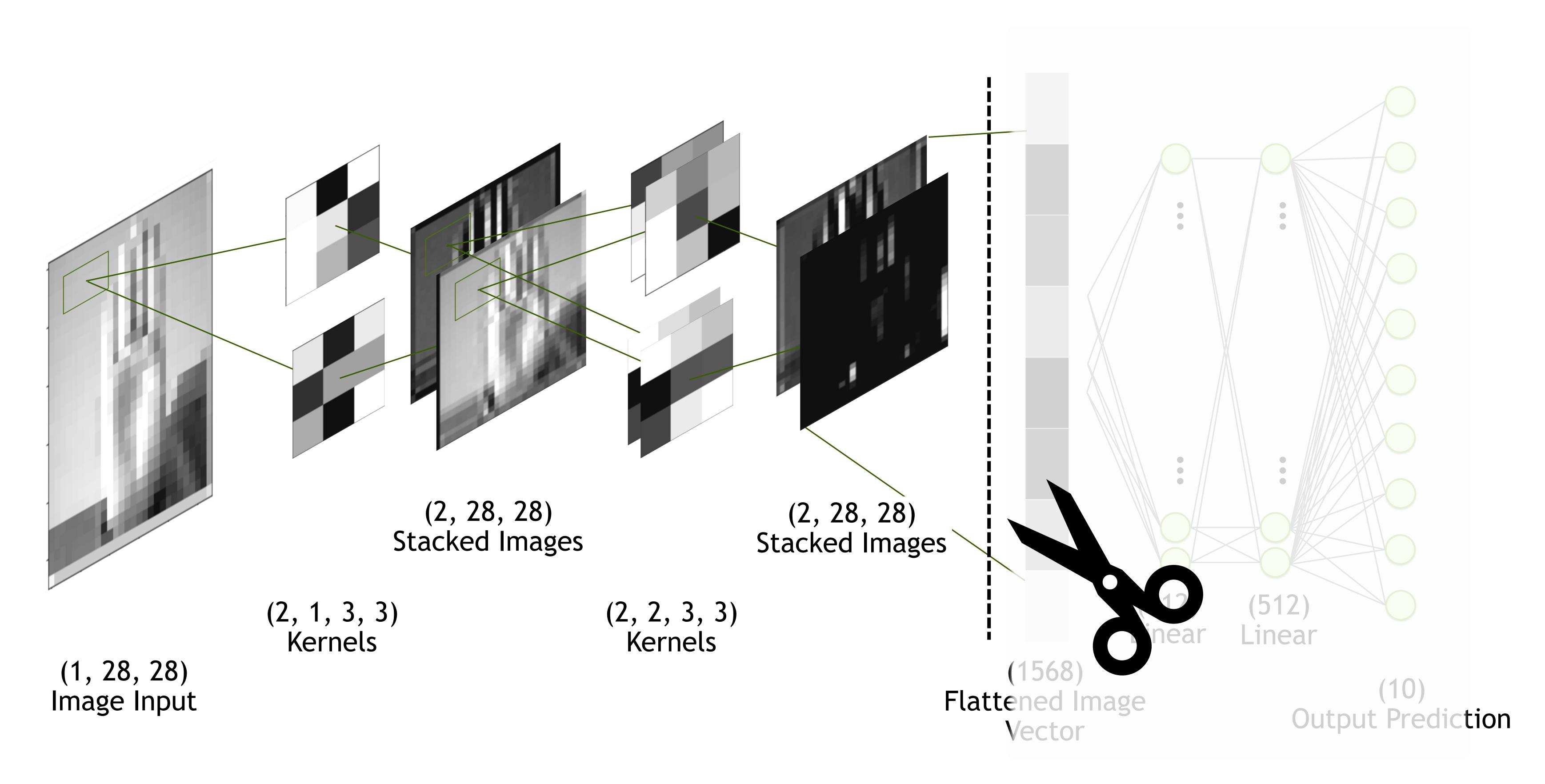




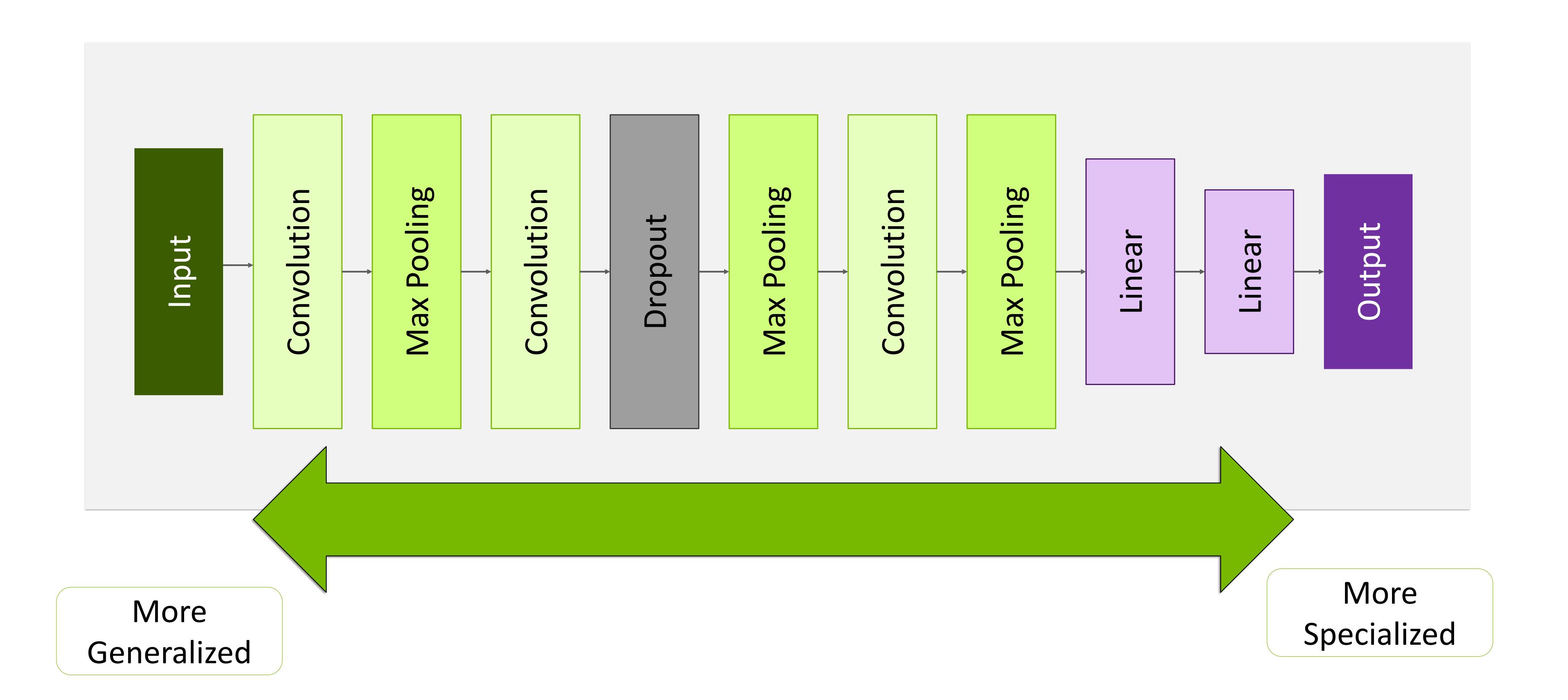














Freezing the Model?





