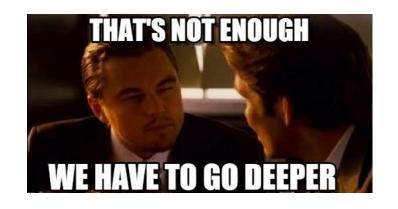


# Transfer Learning

M.Tech. Data Science, Second Year, NMIMS

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locanster Learning -> In 2010, Stanford created the Image Net Competition -> Over the years different types of convolutional neural network are designed to optimized the error rate. Transfer Learning allows for the knowledge learned in one task to be rocused as a starting point for a second - Example: model capable to identify humans, animals, and furniture locations can be modified to find objects from real time image data



Relu Conv + Relu Max-Pool Conv 3x3 3x3 224 x 224

128 128 + Relu Conv + Relu Max-Pool Conv 3x3 112 × 112

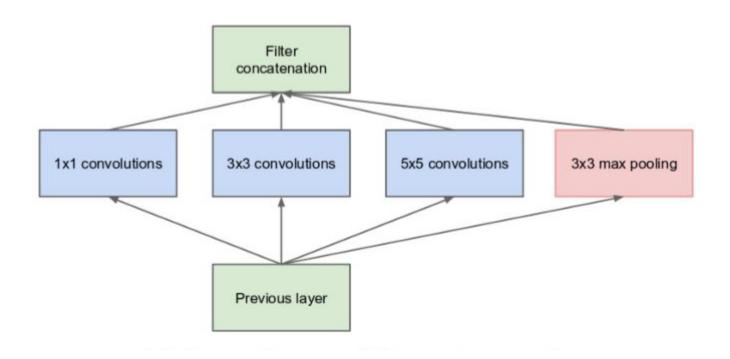
256 256 256 + Relu + Relu Conv + Relu **Max-Pool** Conv 3x3 56 x 56

512 512 + Relu Conv + Relu Conv + Relu Max-Pool Conv 28 x 28

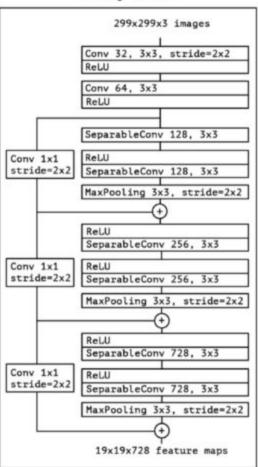
**VGG-16** 

512 Conv + Relu Conv + Relu + Relu **Max-Pool** 3x3

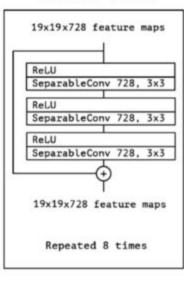
## **Inception Models**



### Entry flow



#### Middle flow



#### Exit flow

