

Pre-Trained Models

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- There are many pre-trained models developed by different people who have done research in deep learning
- We can see the various models developed at [ImageNet Challenge](#) competitions over many years
- In these competitions the top-five error rate for image classification fell from over 26% to less than 2.3% in just six years.
- By looking at the evolution of the winning entries, we can very well understand how CNNs work.

Different Architectures

- [LeNet-5 \(1998\)](#)
- [AlexNet \(2012\)](#)
- [GoogleNet \(2014\)](#)
- [VGGNet \(2014\)](#)
- [ResNet \(2015\)](#)
- [Xception \(2016\)](#)
- [SENet \(2017\)](#)

We will take a look at LeNet-5, GoogleNet and ResNet just to have a glimpse of all models