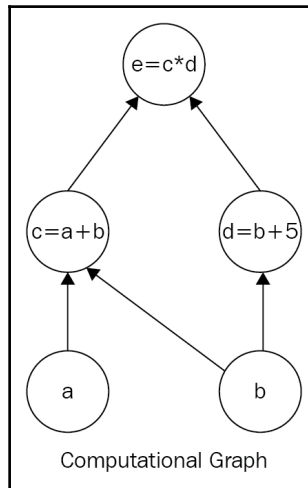
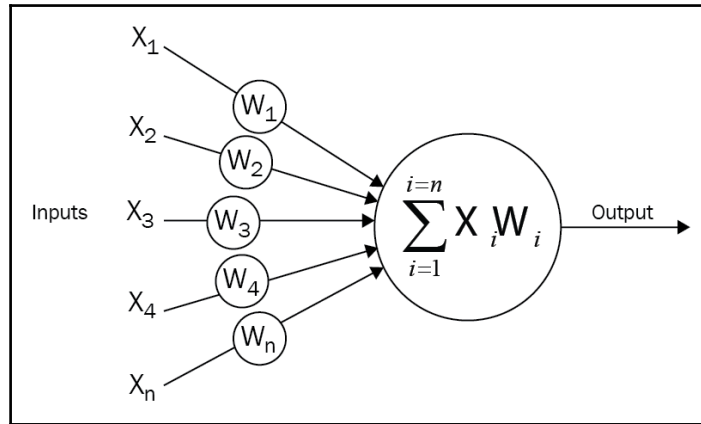
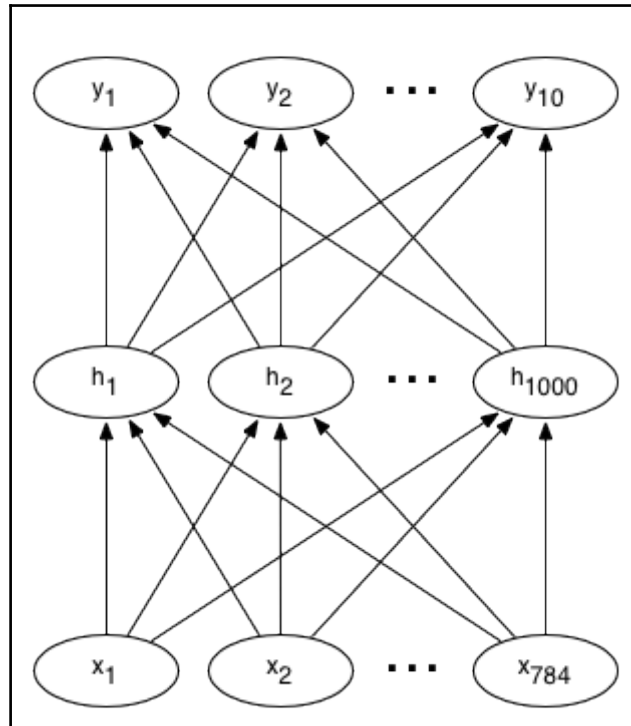
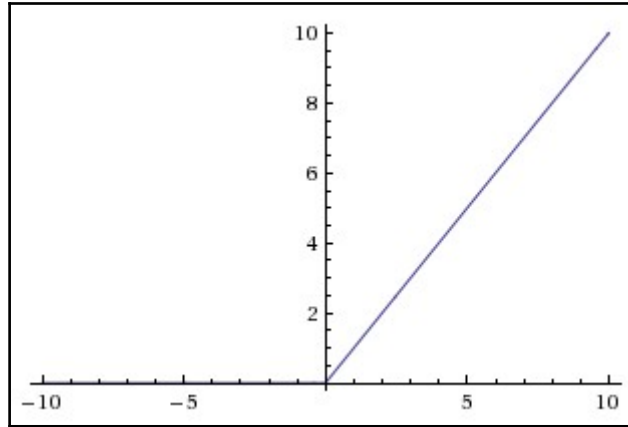


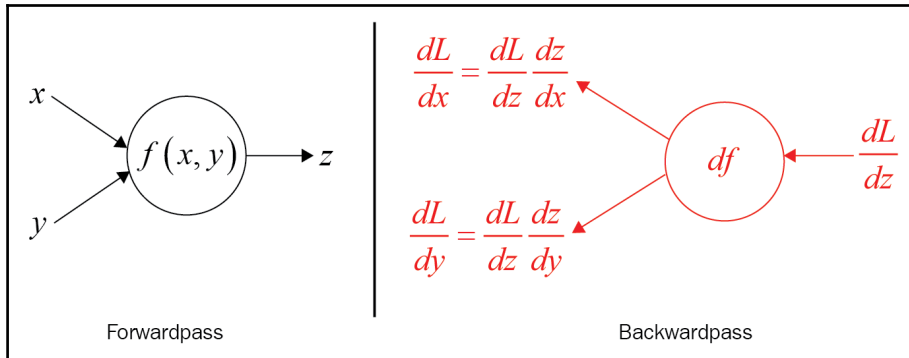
Table of Contents

	1
Index	45

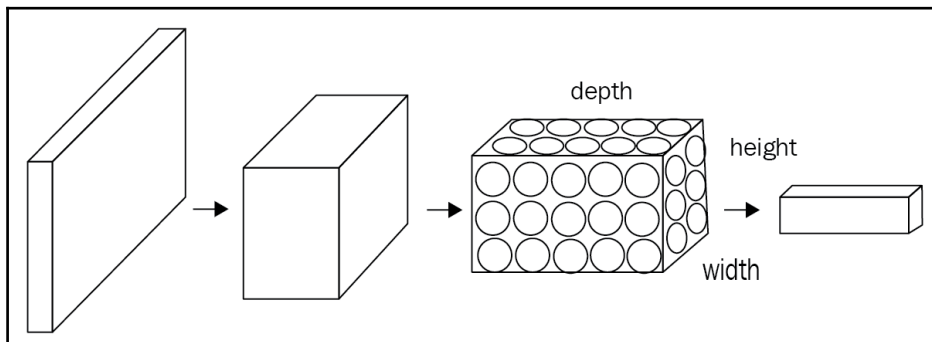
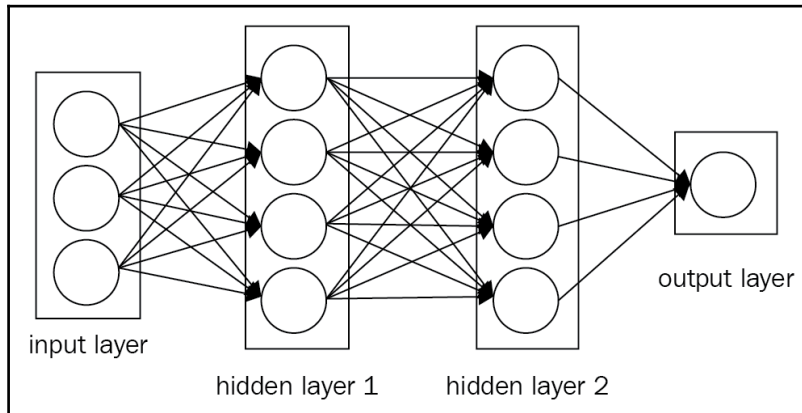
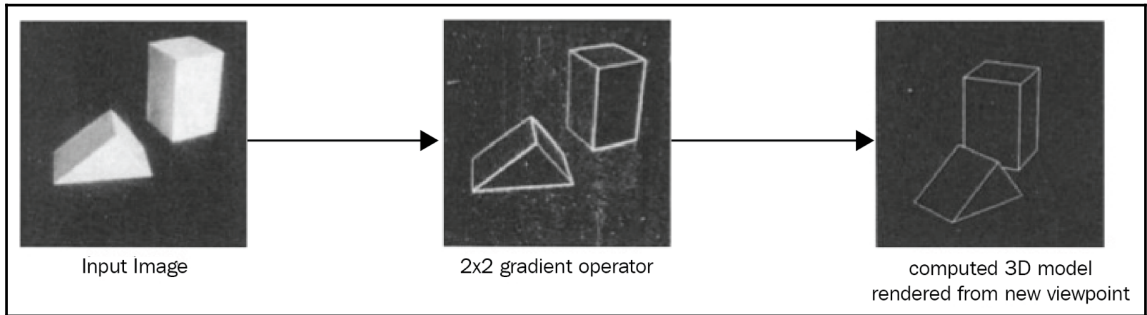
Chapter 1: Deep Neural Networks – Overview

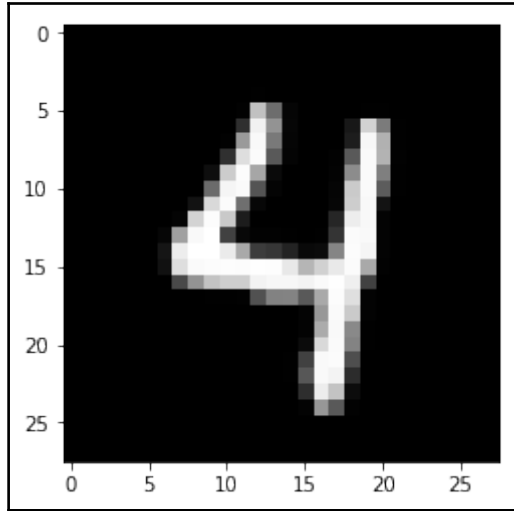


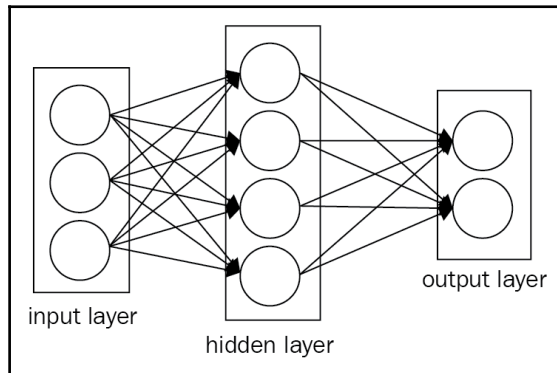
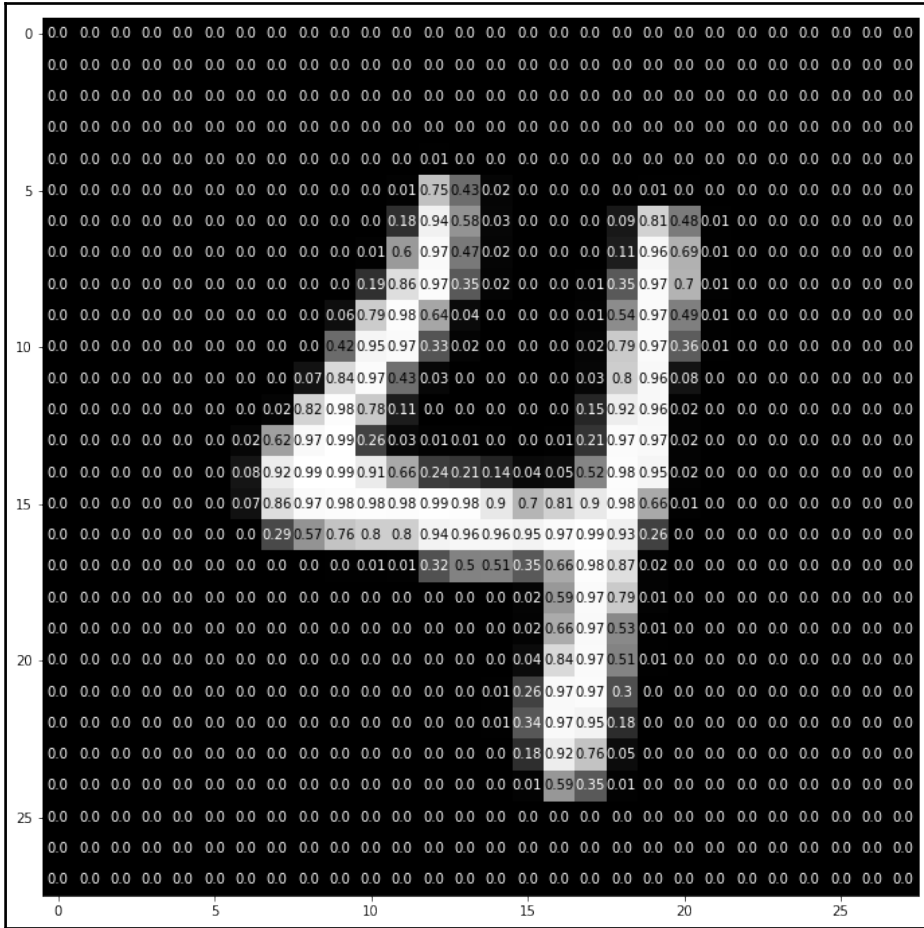


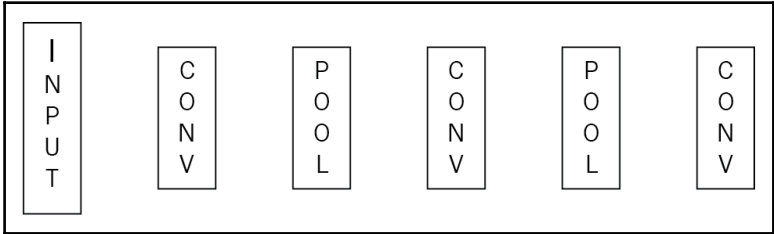
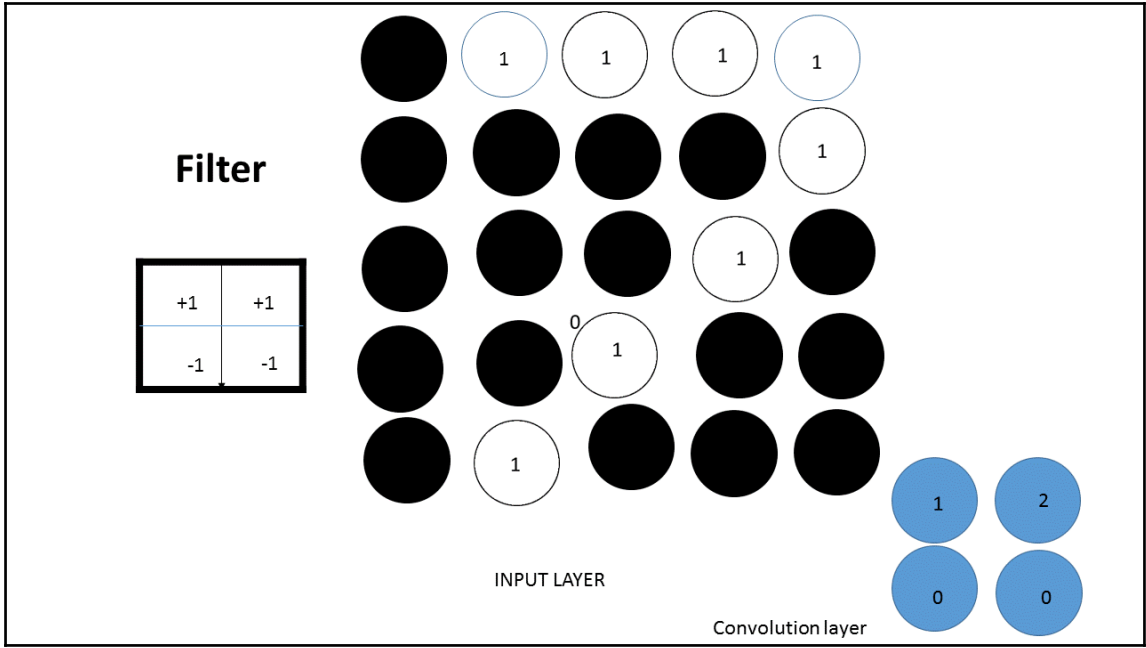


Chapter 2: Introduction to Convolutional Neural Networks

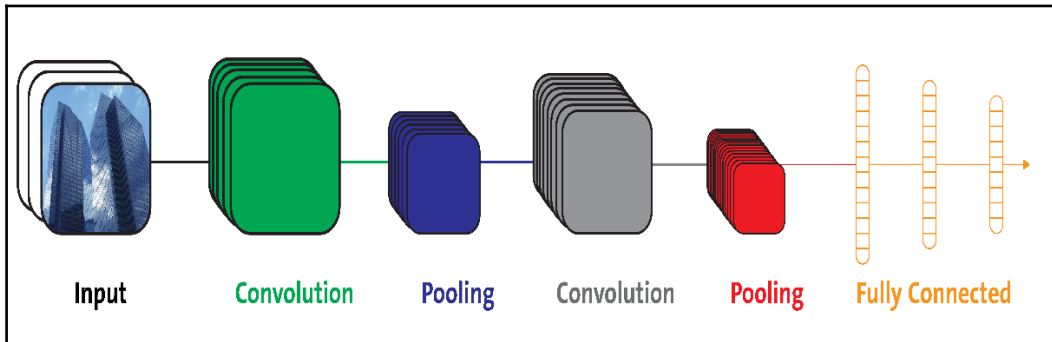
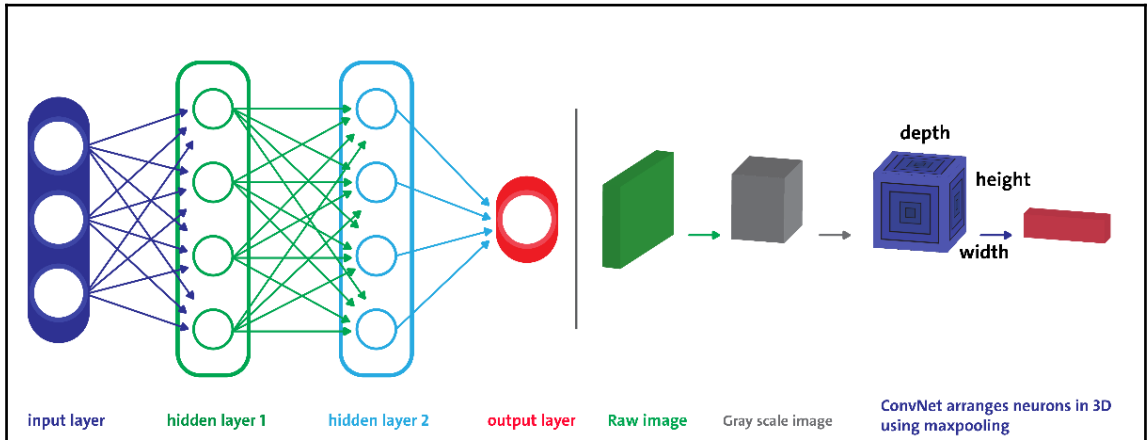


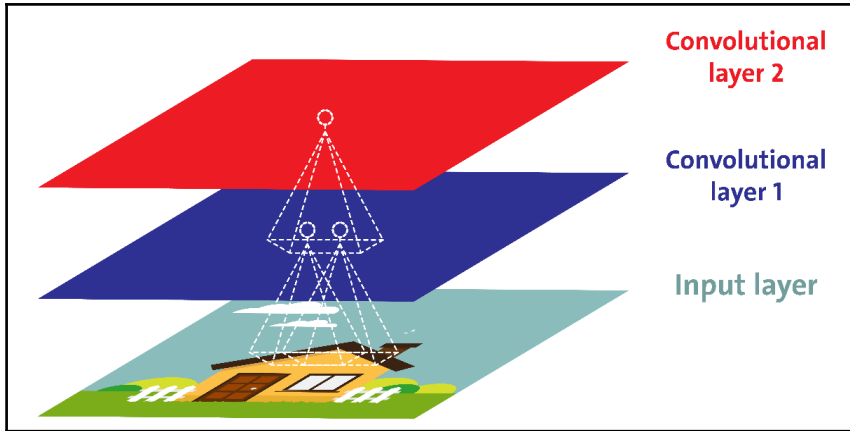
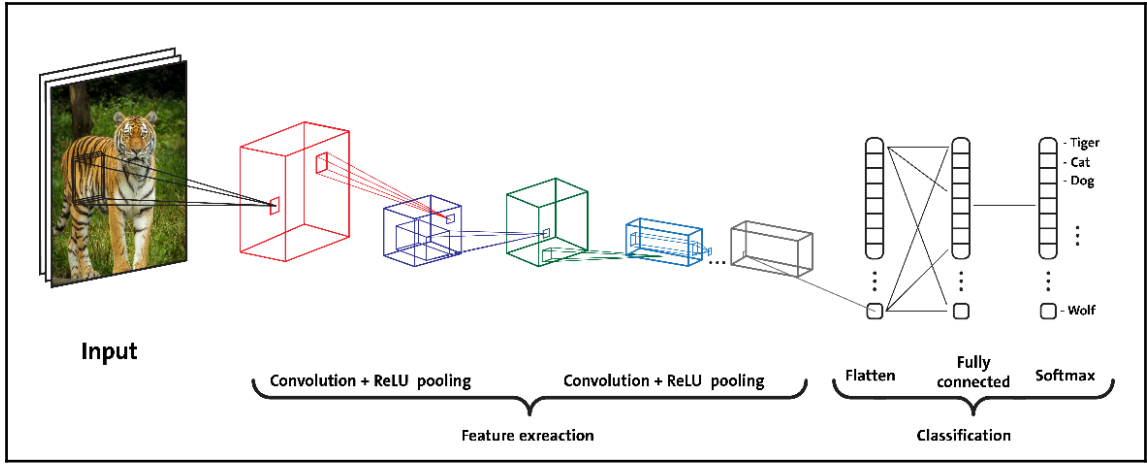


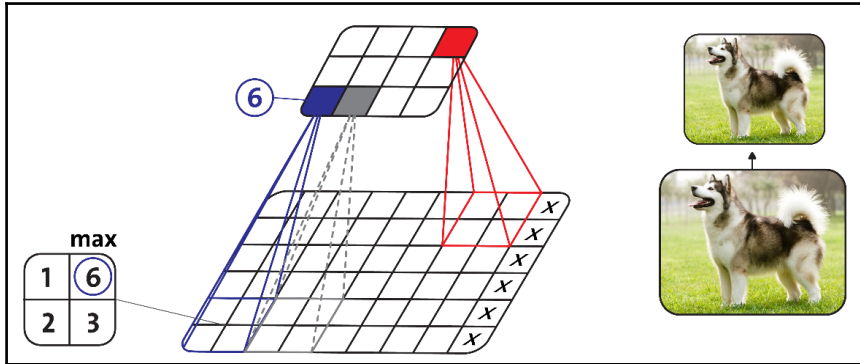
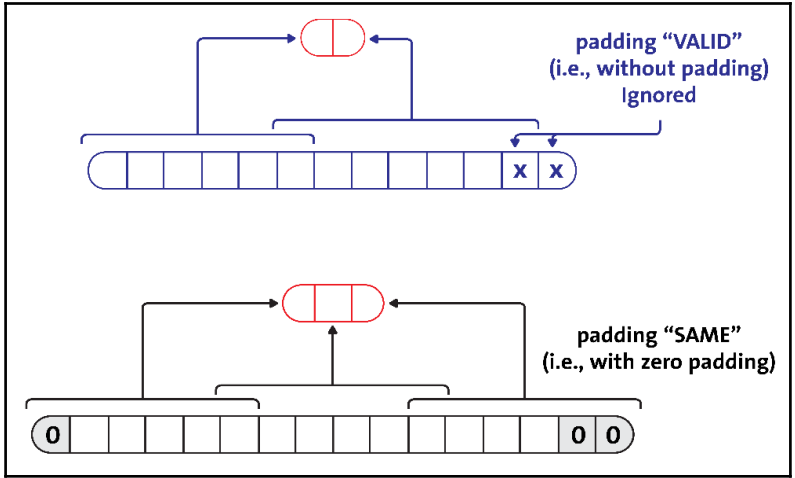


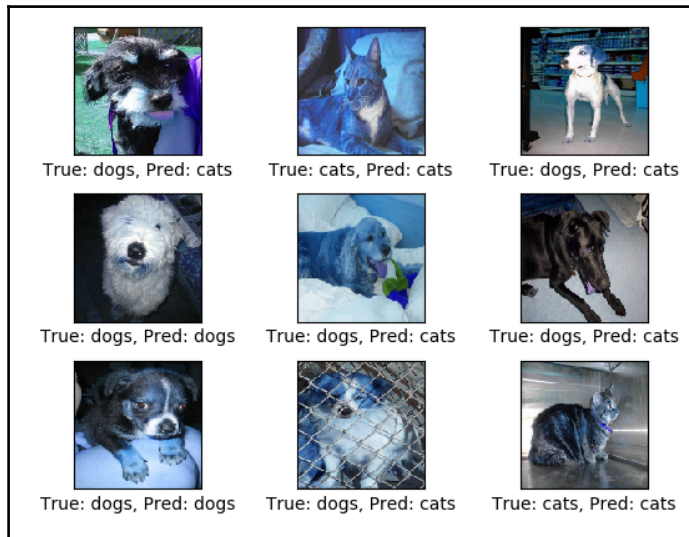


Chapter 3: Build Your First CNN and Performance Optimization

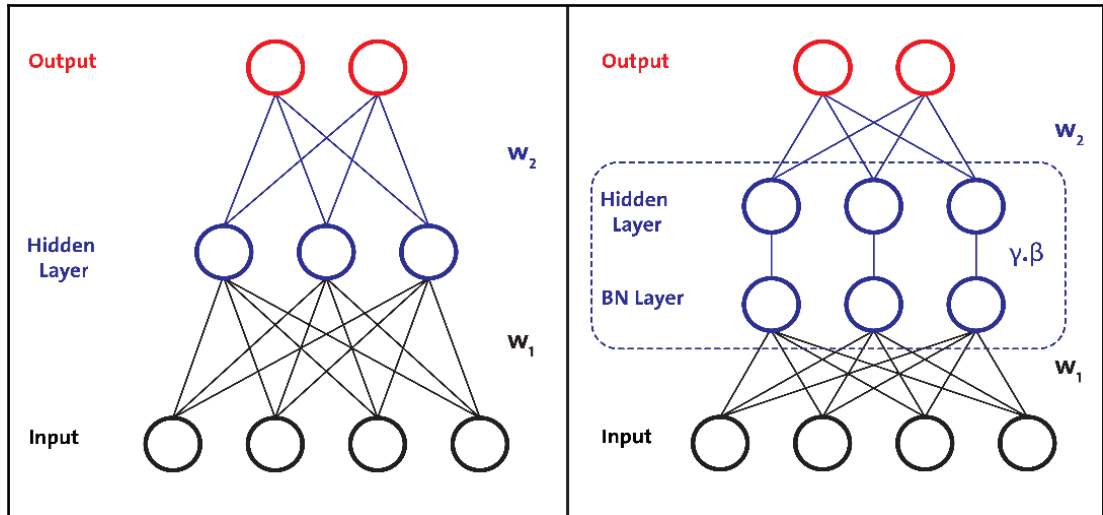






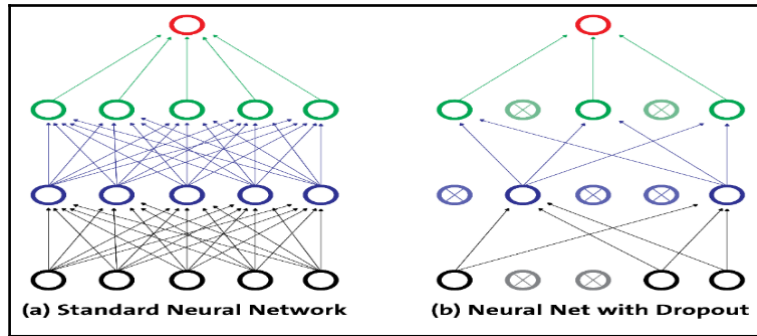




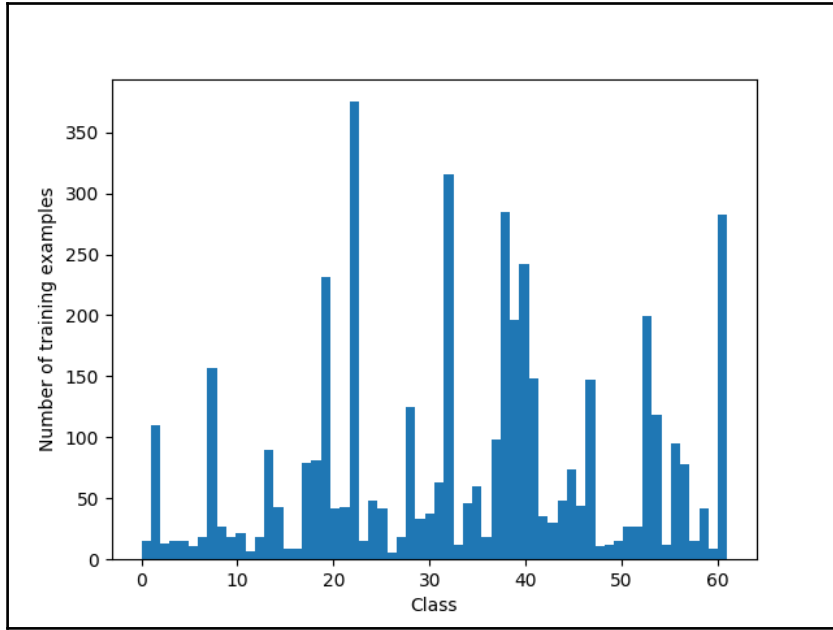


Name	Accuracy	LogLoss	Comments
Before	0.474	2.35	As in paper
Before + scale&bias layer	0.478	2.33	As in paper
After	0.499	2.21	
After + scale&bias layer	0.493	2.24	

Name	Accuracy	LogLoss	Comments
ReLU	0.499	2.21	
RReLU	0.500	2.20	
PReLU	0.503	2.19	
ELU	0.498	2.23	
Maxout	0.487	2.28	
Sigmoid	0.475	2.35	
TanH	0.448	2.50	
No	0.384	2.96	

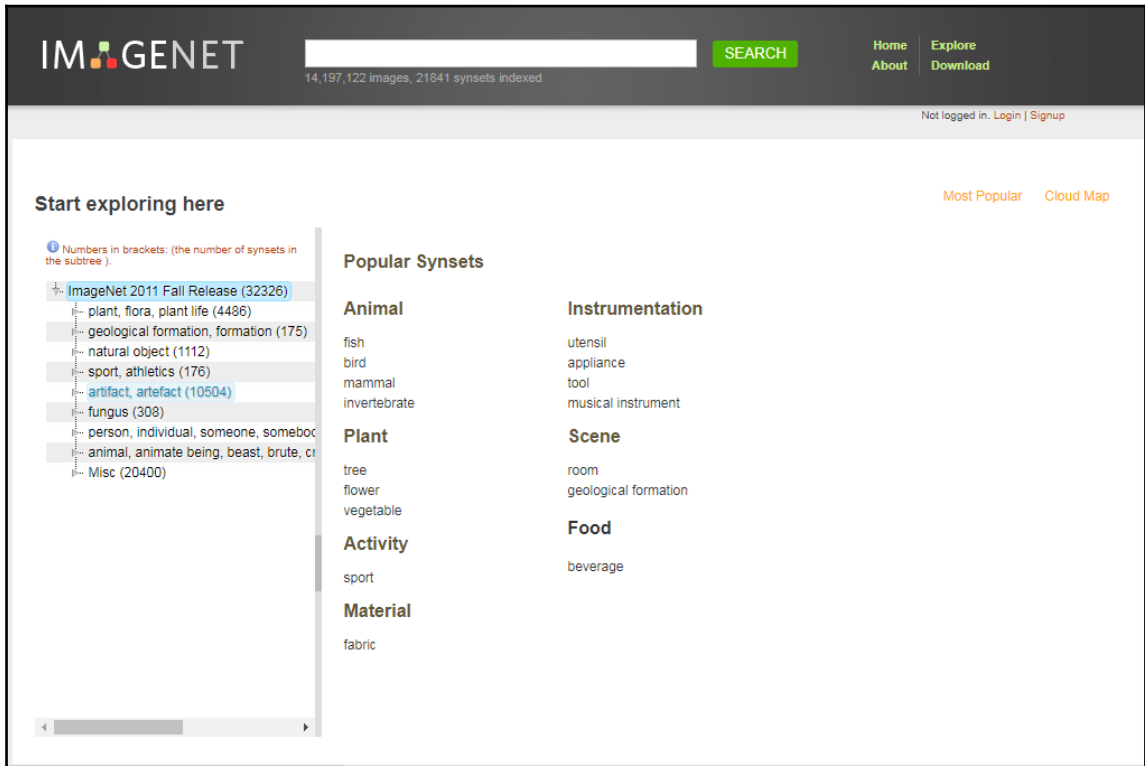


Desktop > BelgiumTSC_Training > Training		Desktop > BelgiumTSC_Testing > Testing	
00000	00037	00000	00037
00001	00038	00001	00038
00002	00039	00002	00039
00003	00040	00003	00040
00004	00041	00004	00041
00005	00042	00005	00042
00006	00043	00006	00043
00007	00044	00007	00044



	Truth: 38 Prediction: 20		Truth: 21 Prediction: 40
	Truth: 19 Prediction: 13		Truth: 39 Prediction: 51
	Truth: 22 Prediction: 22		Truth: 22 Prediction: 24
	Truth: 45 Prediction: 35		Truth: 18 Prediction: 53
	Truth: 22 Prediction: 22		Truth: 53 Prediction: 53

Chapter 4: Popular CNN Model Architectures

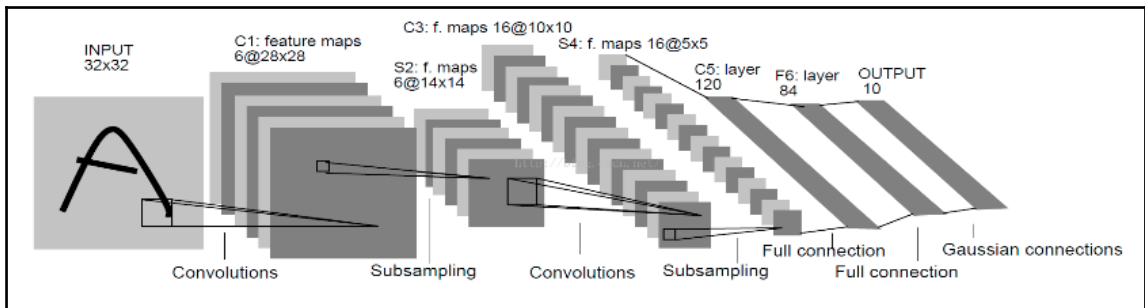


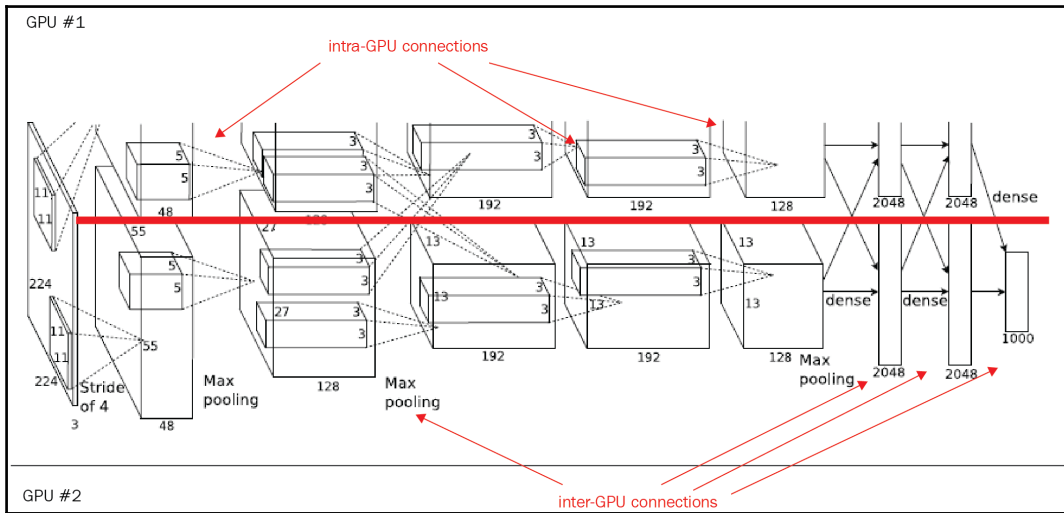
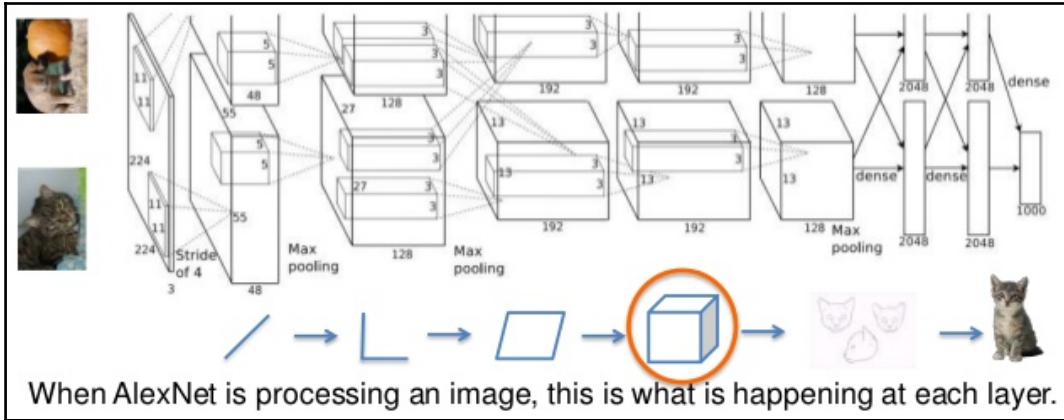
The screenshot shows the ImageNet website interface. At the top, the logo "IMAGENET" is displayed next to a search bar containing "14,197,122 Images, 21841 synsets indexed" and a green "SEARCH" button. Navigation links for "Home About" and "Explore Download" are visible. A user status indicator shows "Not logged in. Login | Signup".

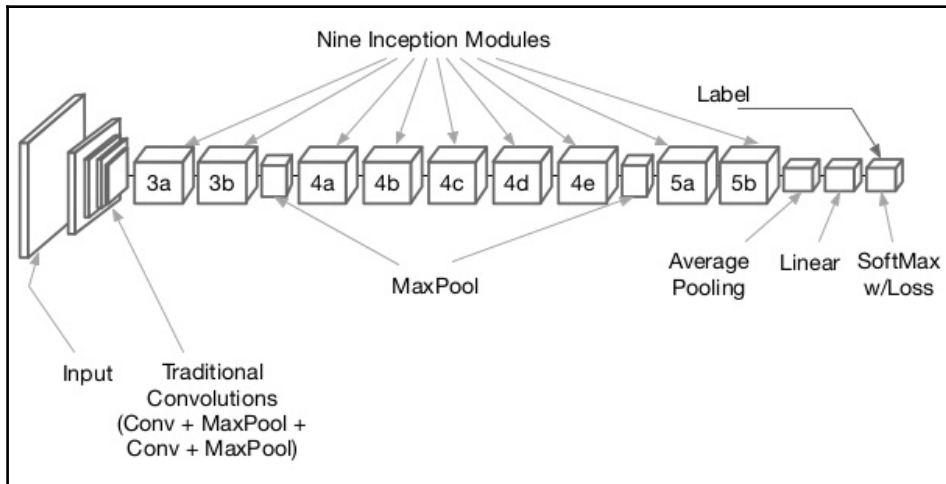
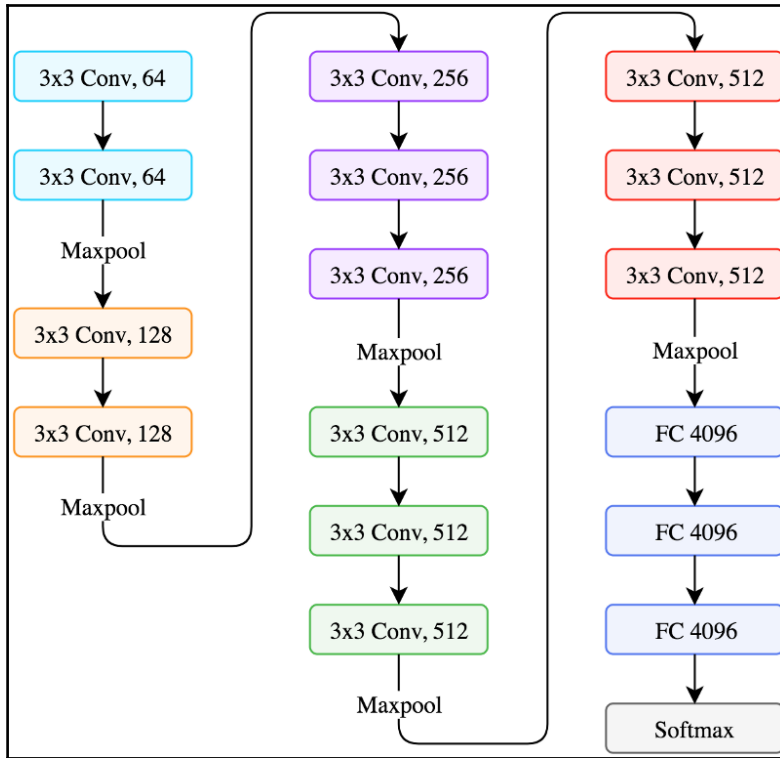
The main content area is titled "Start exploring here" and includes links for "Most Popular" and "Cloud Map". A sidebar on the left lists categories with their respective synset counts, such as "ImageNet 2011 Fall Release (32326)", "plant, flora, plant life (4486)", "geological formation, formation (175)", "natural object (1112)", "sport, athletics (176)", "artifact, artefact (10504)", "fungus (308)", "person, individual, someone, somebod", "animal, animate being, beast, brute, cr", and "Misc (20400)".

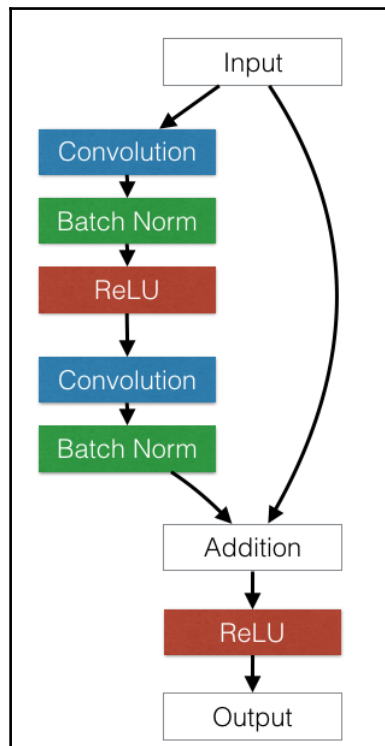
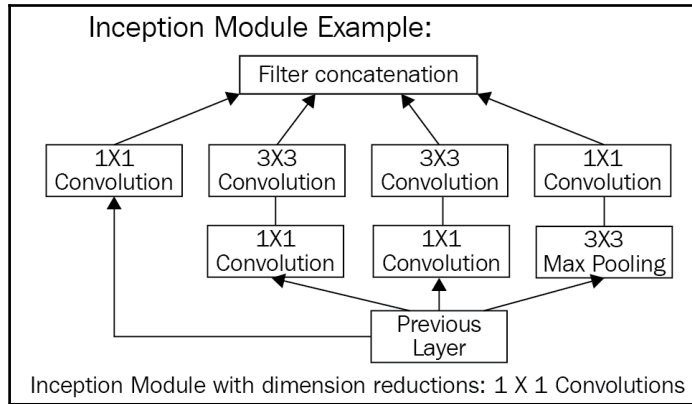
The "Popular Synsets" section is divided into several categories:

- Animal:** fish, bird, mammal, invertebrate
- Plant:** tree, flower, vegetable
- Activity:** sport
- Material:** fabric
- Instrumentation:** utensil, appliance, tool, musical instrument
- Scene:** room, geological formation
- Food:** beverage

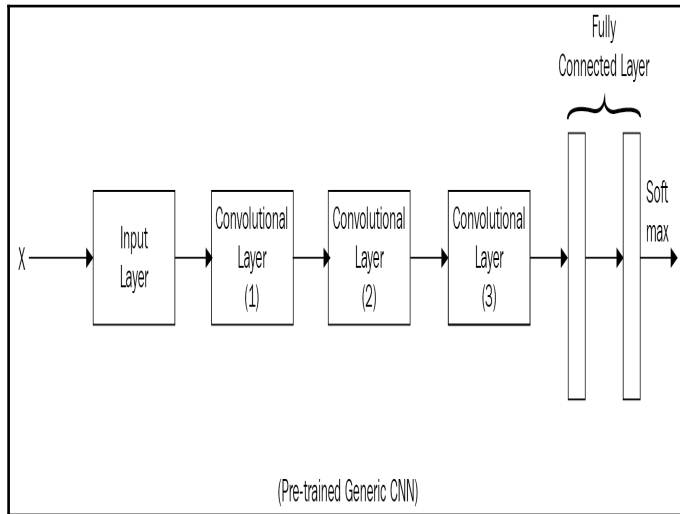


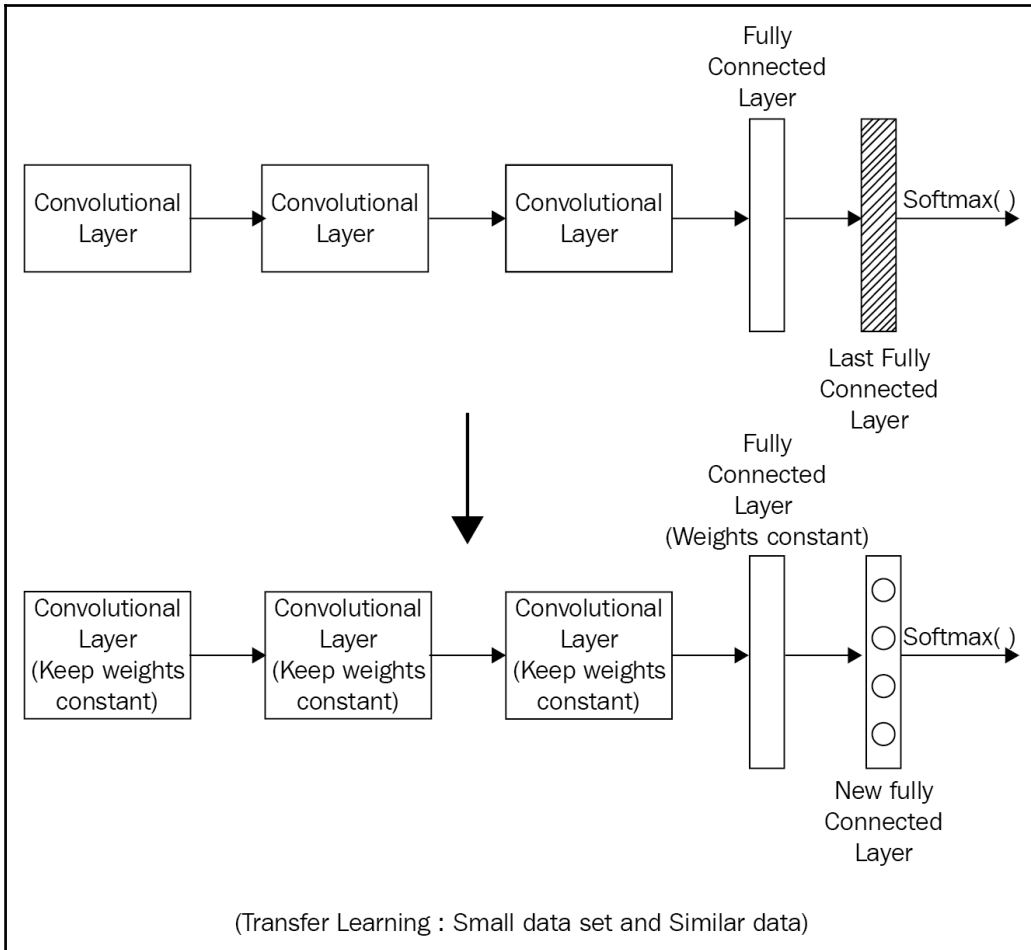


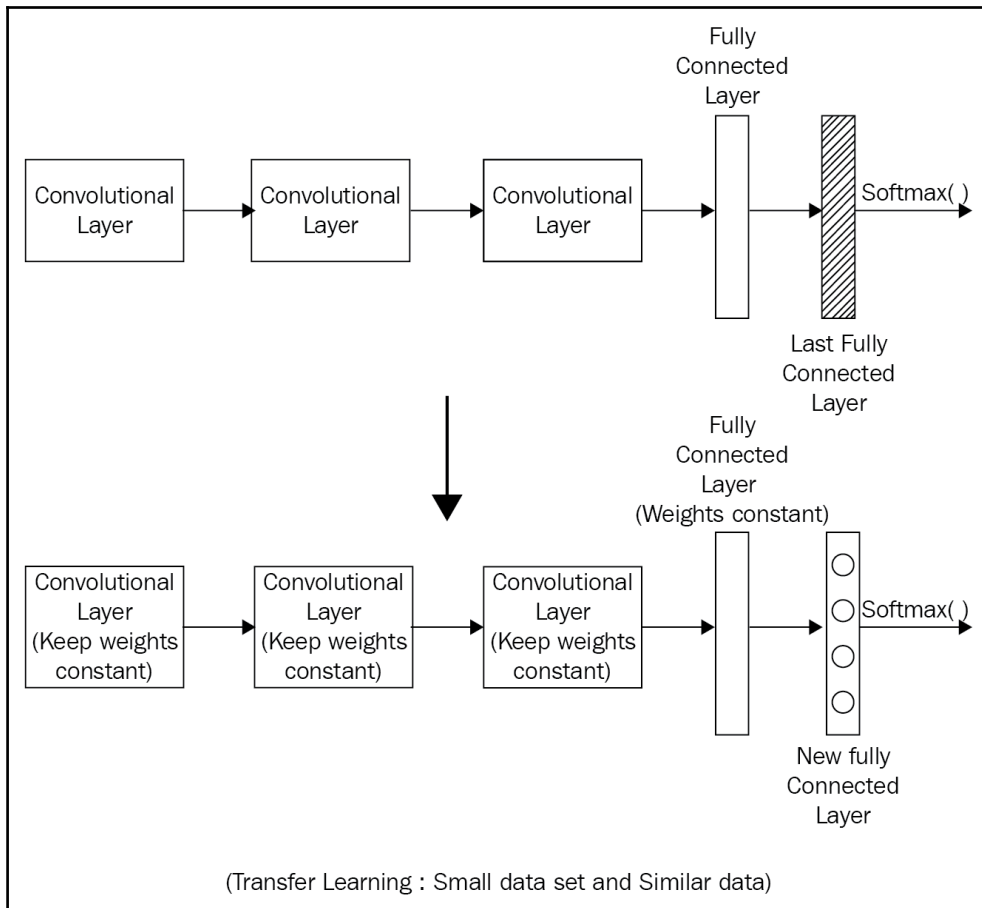


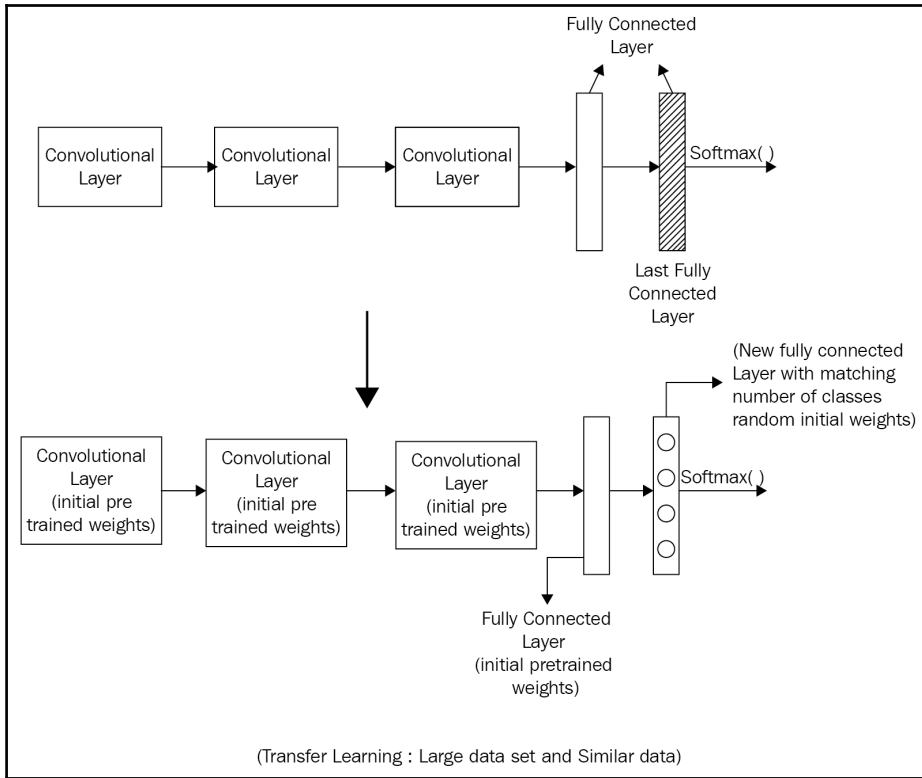


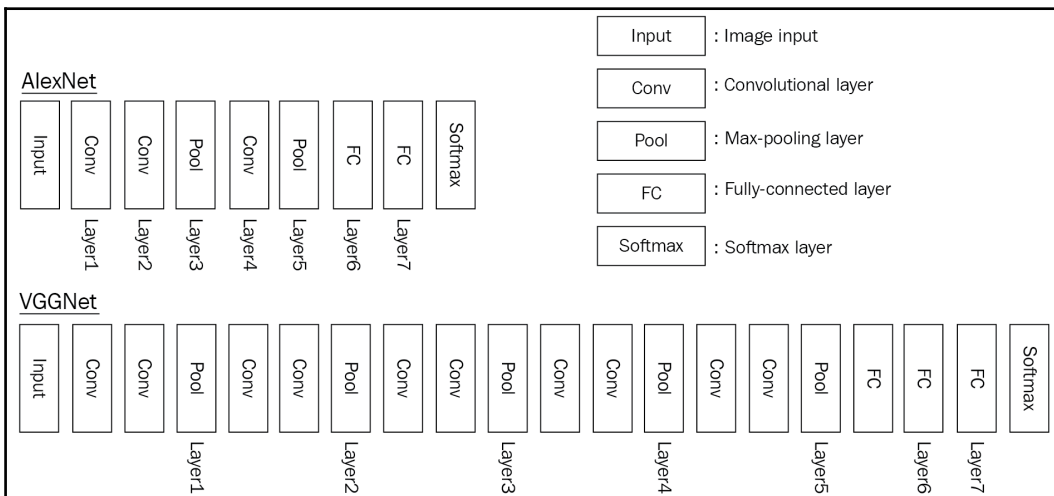
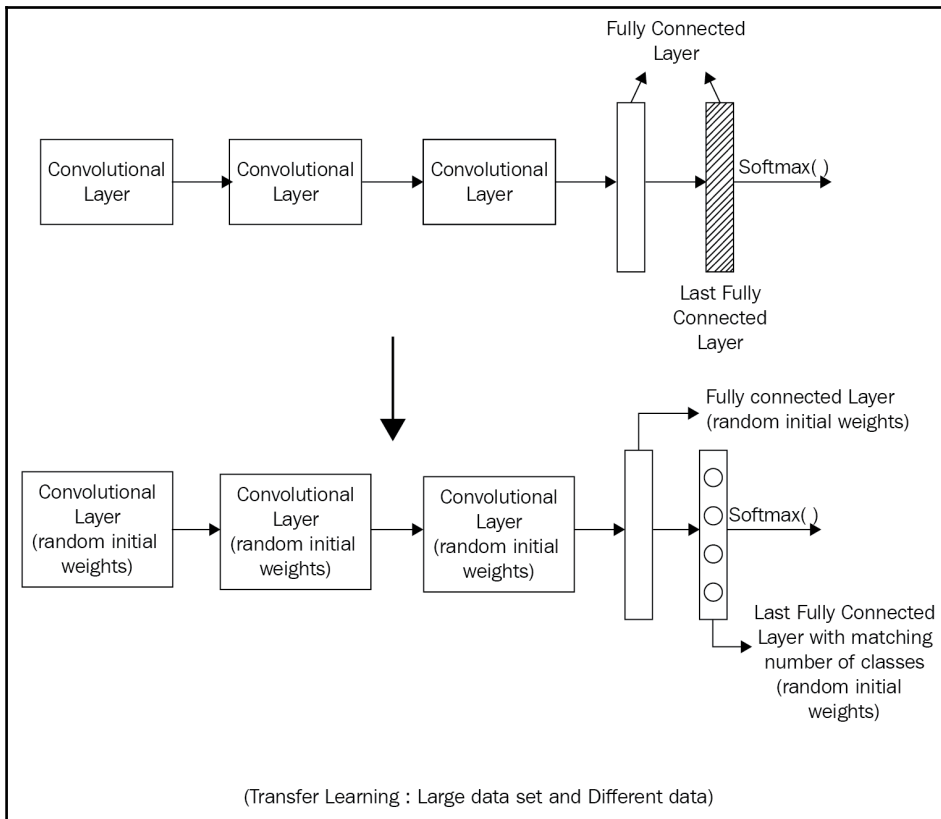
Chapter 5: Transfer Learning



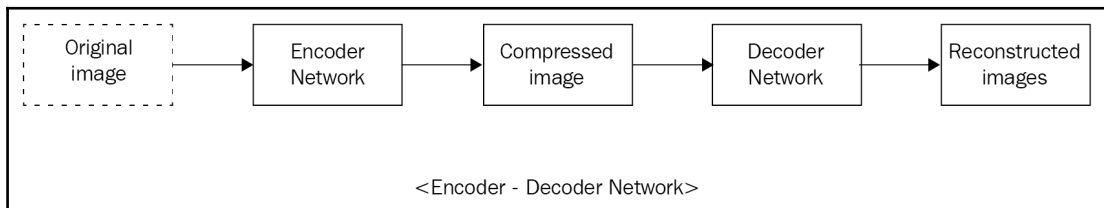
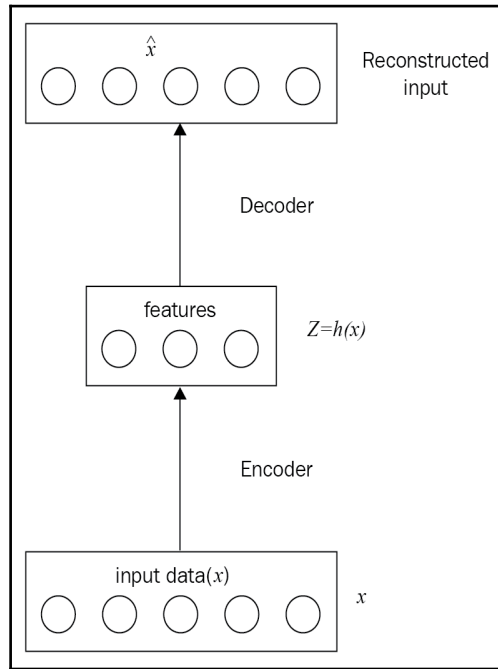


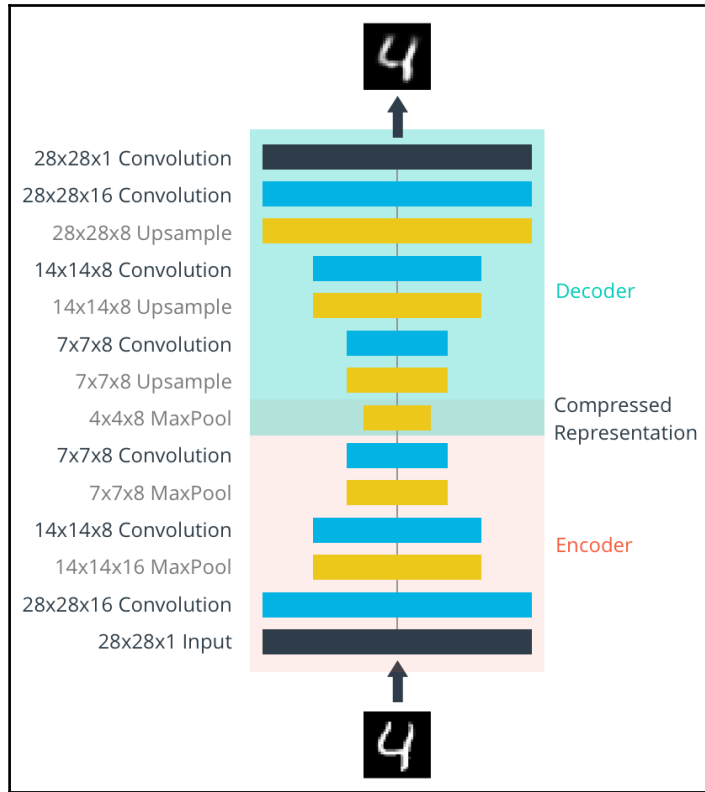






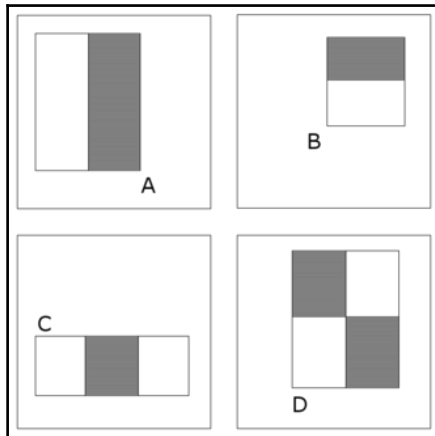
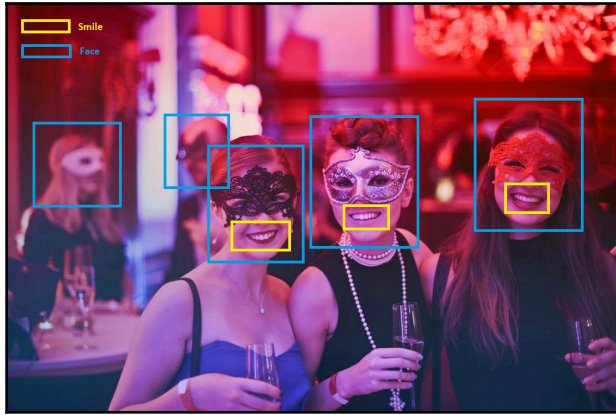
Chapter 6: Autoencoders for CNN

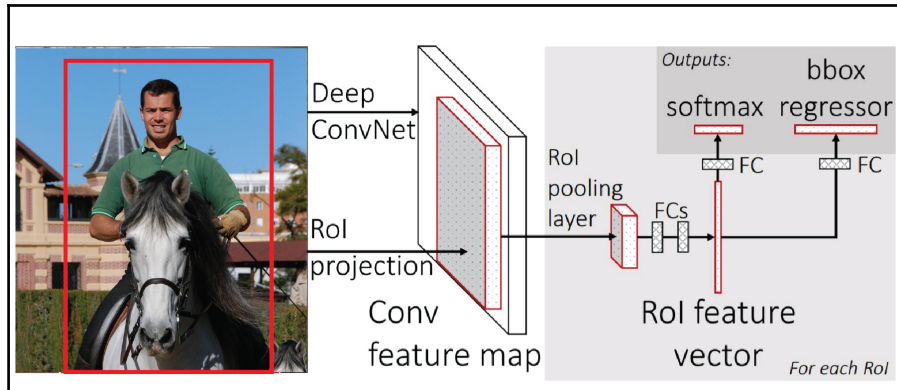
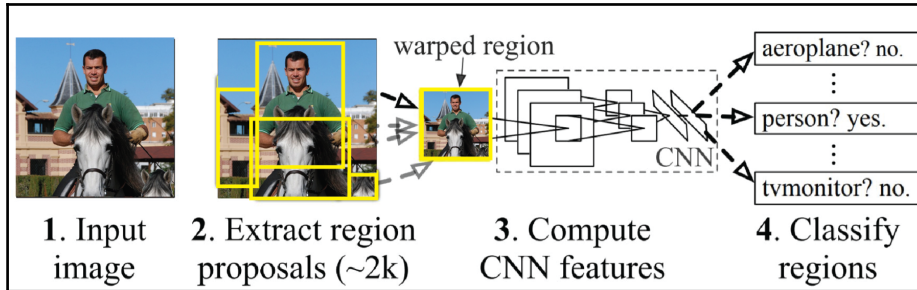


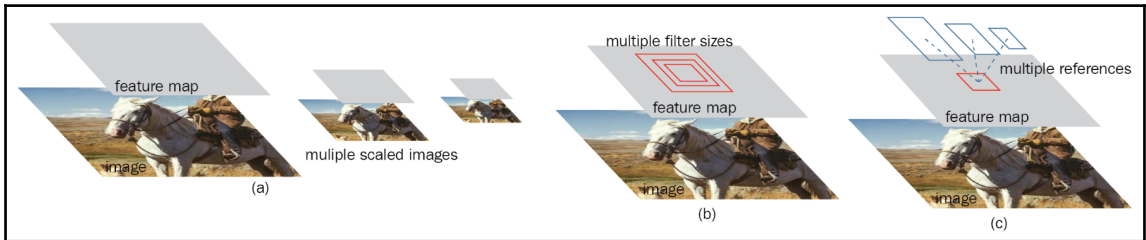
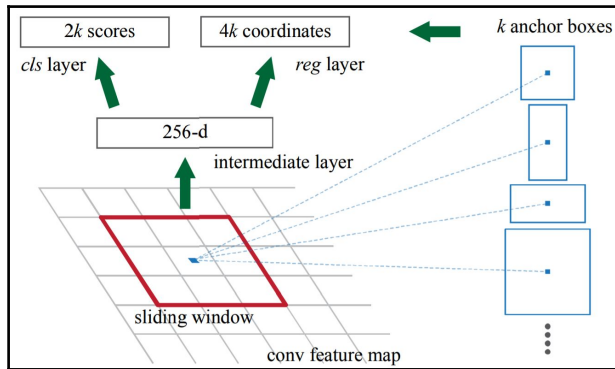
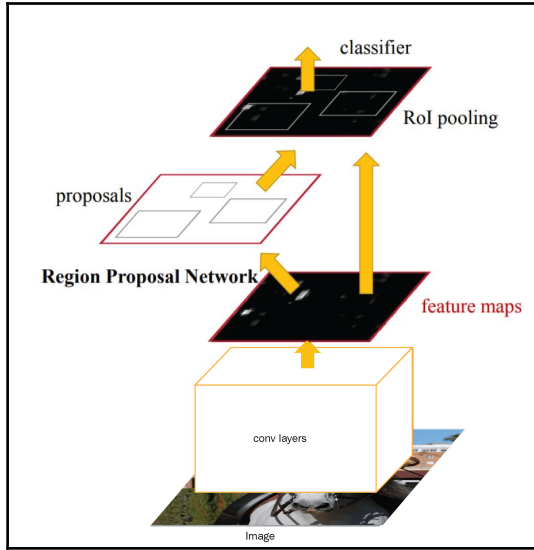


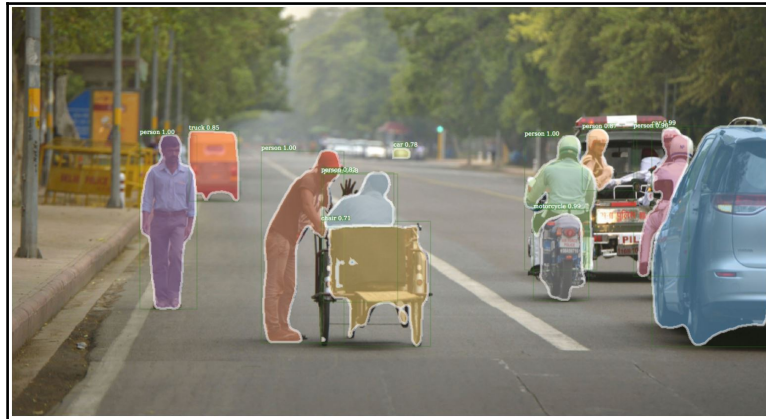
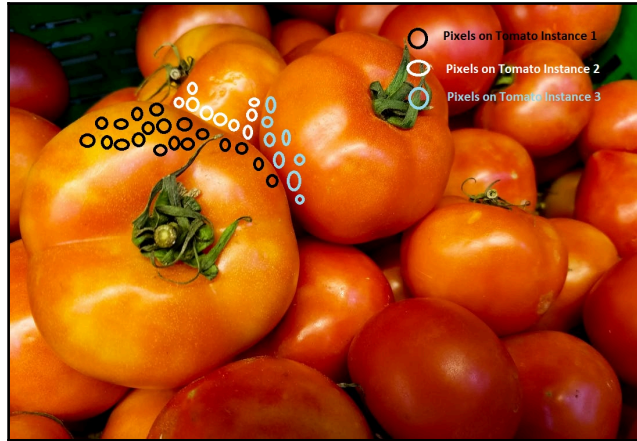
Chapter 7: Object Detection and Instance Segmentation with CNN





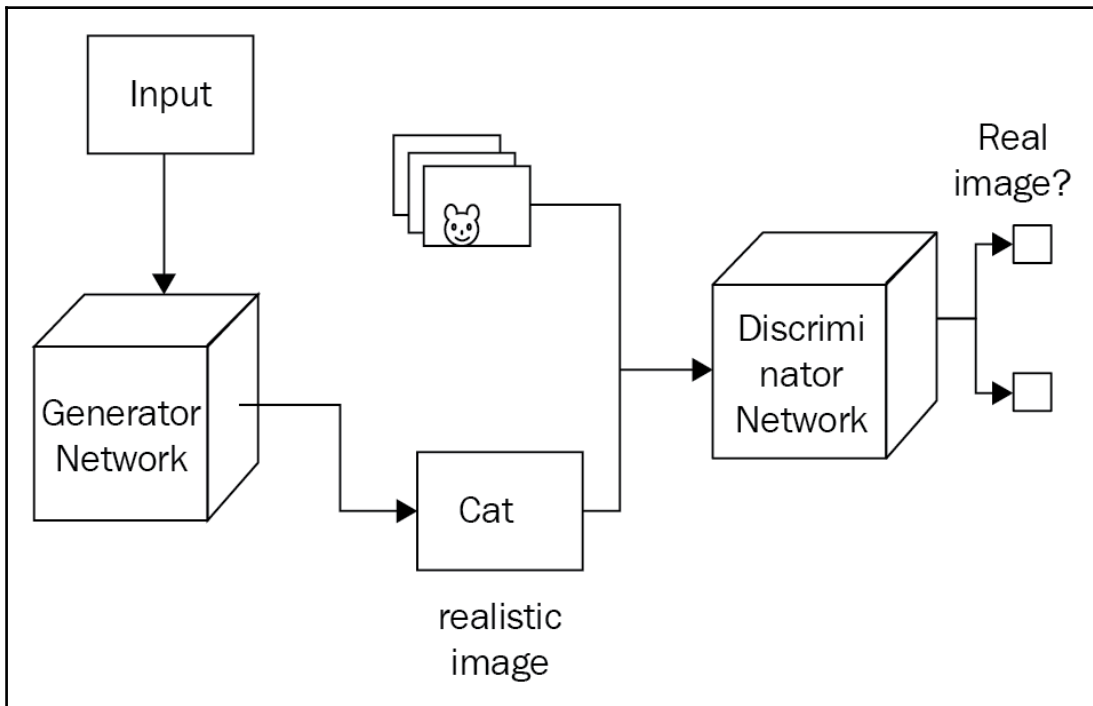
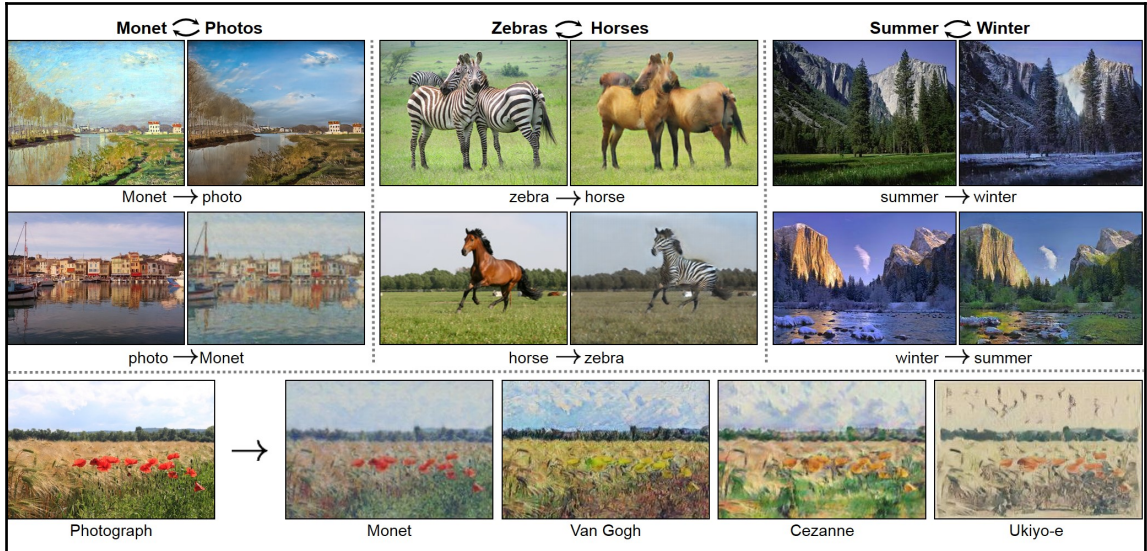


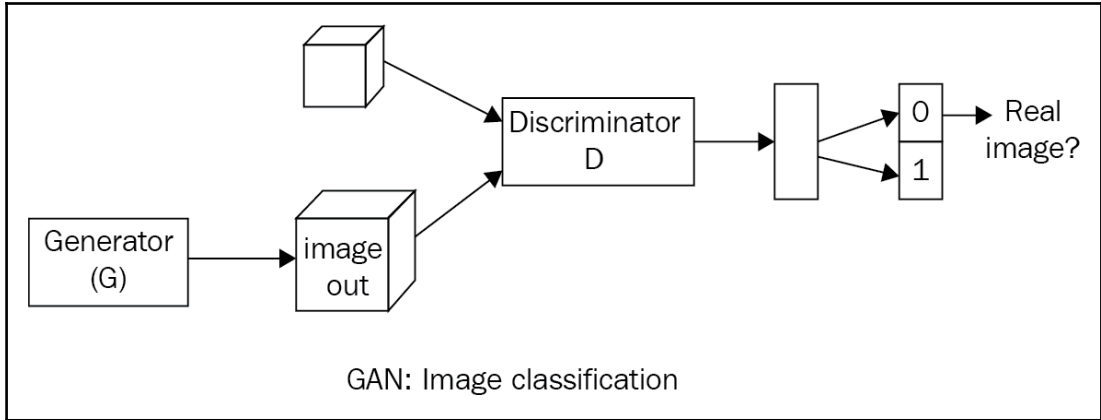




Chapter 8: GAN: Generating New Images with CNN

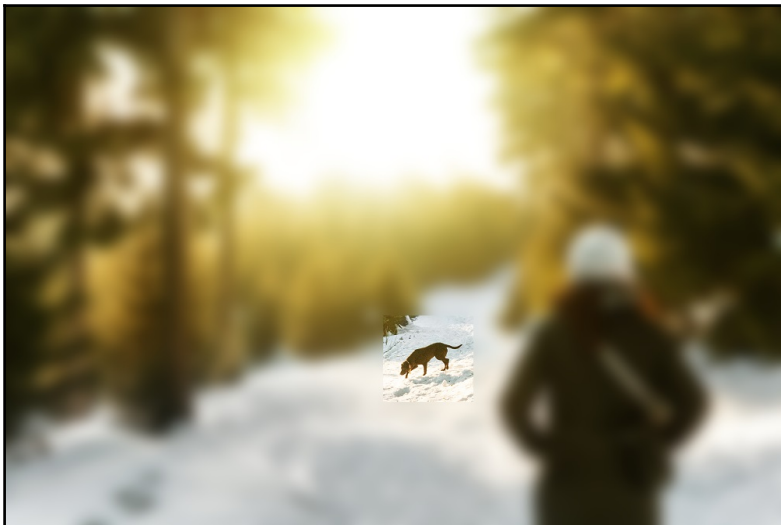




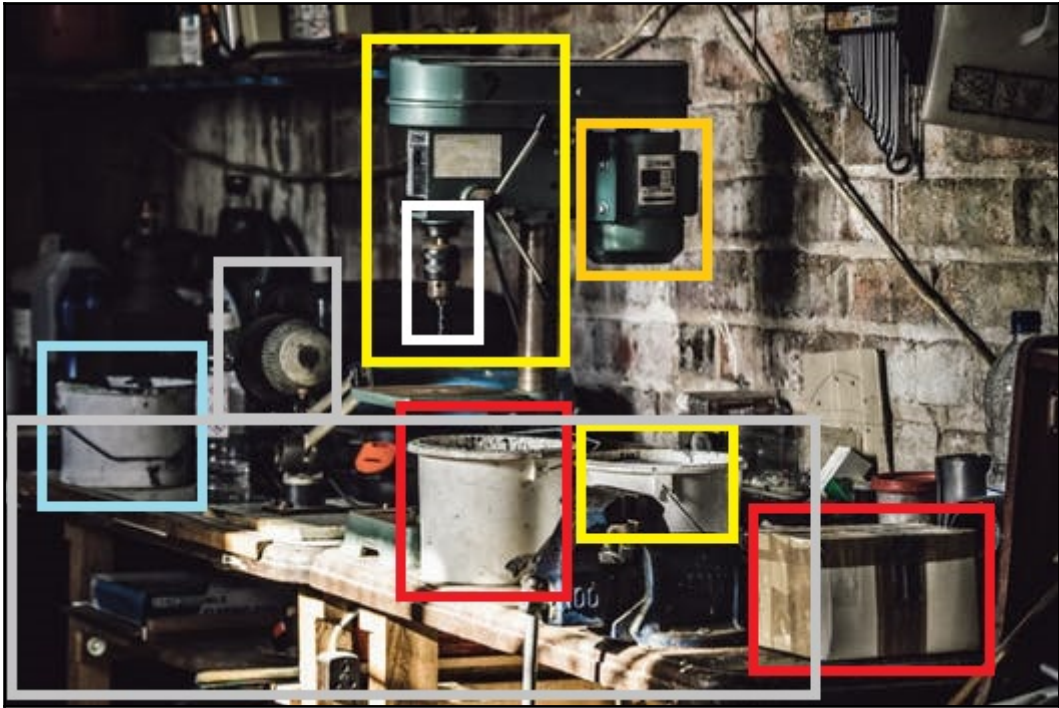


Chapter 9: Attention Mechanism for CNN and Visual Models

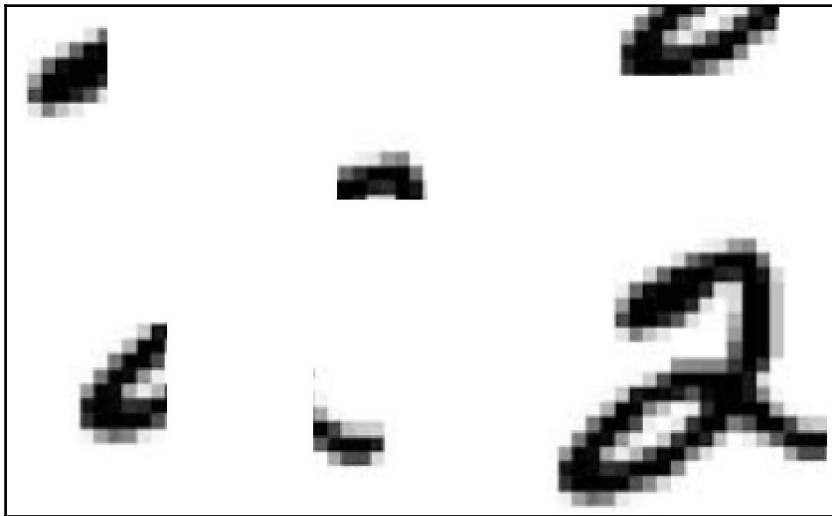


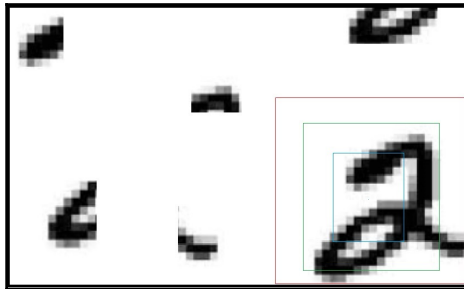
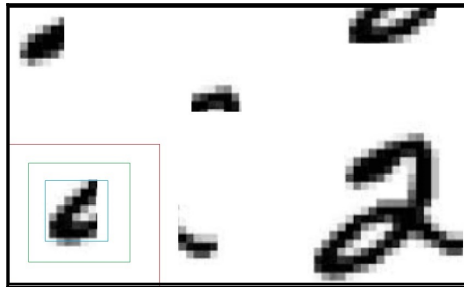
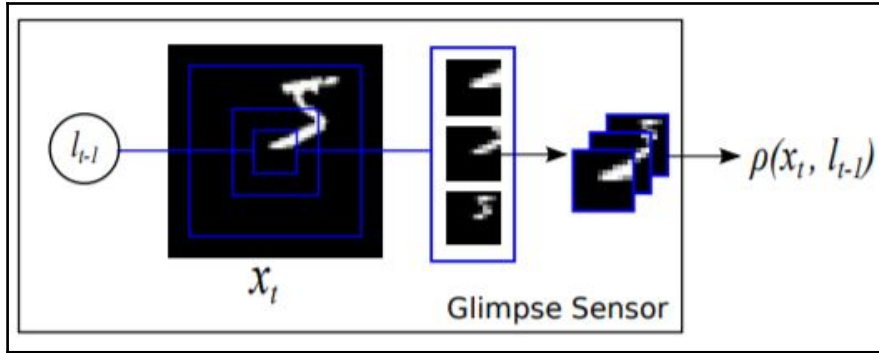


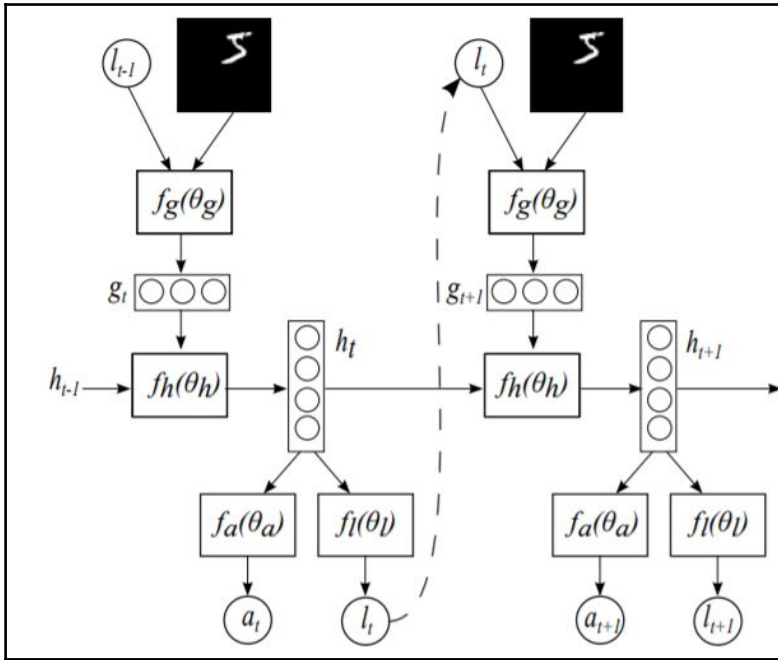
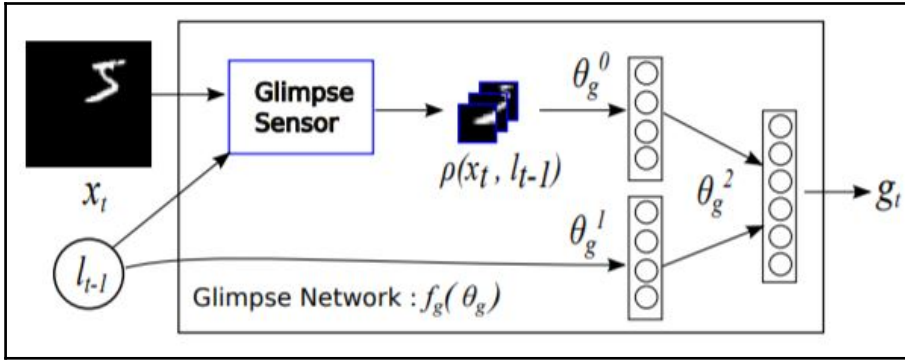


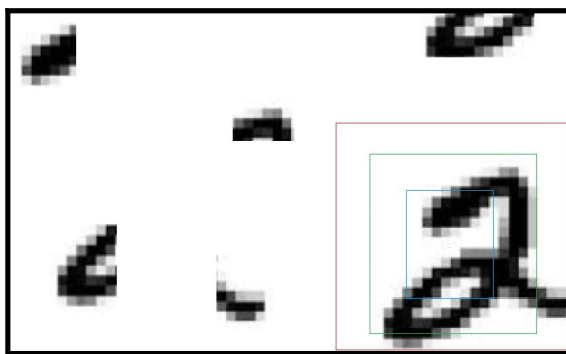












Digit	Probability	Probability	Probability
0	0.01	0.15	0.06
1	0.03	0.12	0.08
2	0.72	0.26	0.01
3	0.04	0.13	0.05
4	0.02	0.01	0.06
5	0.05	0.12	0.1
6	0.03	0.13	0.12
7	0.01	0.04	0.12
8	0.04	0.01	0.06
9	0.05	0.03	0.05

Index