Module	Heading	Main Paper	Additional Readings		
	No paper discussion				
Learning the convolutional Filters	Convolutions	All about convolutions : A guide to convolution arithmetic for deep learning	Xception: Deep Learning with Depthwise Separable Convolutions		
	Convolutions	All about convolutions . A guide to convolution aritimizate for deep learning	Multi-Scale Context Aggregation by Dilated Convolutions		
	LeNet	Gradient-Based Learning Applied to Document Recognition	Activation Functions: Comparison of trends in Practice and Research for Deep Learning		
	Activation, weight init	Understanding the Difficulty of training Deep feedforward Neural Networks	Visualizing the Loss Landscape of Neural NetsLinks to an external site.		
	retivation, weight mit	Onderstanding the Difficulty of training Deep recursival a recursive recursive	Delving Deep into Rectifiers: Surpassing Human-Level Performance on ImageNet Classification		
	AlexNet	ImageNet Classification with Deep Convolutional Neural Networks	Visualizing and Understanding Convolutional Networks		
	vices :		Dropout: A Simple Way to Prevent Neural Networks from Overfitting		
	VGGNet	Very Deep Convolutional Networks for Large-Scale Visual Recognition	Detail Manual and in		
nlo	Deep-supervision	Deeply supervised nets	Batch Normalization Layer Normalization		
) n					
00 8			Group Normalization Instance Normalization		
the l			Weight Standardization		
ing.	Knowledge Distillation	Distilling the Knowledge in a Neural Network	Network in Network (additional notes)		
į į	Knowledge Distillation	Distrining the Knowledge in a Nethal Network	Deformable convolutional networks		
Lea	Inception Models	GoogLeNet: Going Deeper with Convolutions	Inception v3: Rethinking the inception architecture for computer vision		
	Residual Networks	Deep Residual Learning for Image Recognition	Identity Mapping in Deep Residual Networks (additional Notes)		
		Aggregated Residual Transformations for Deep Neural Networks	Deep Networks with Stochastic Depth		
		Wide Residual Networks	Deep Networks with Stochastic Depth		
	Transformer	Attention is all you need	The Illustrated Transformer		
h	Vision Transformer	An Image is Worth 16x16 Words: Transformers for Image Recognition at Scale	Transformers are Graph Neural Networks		
	DieT	Training data-efficient image transformers & distillation through attention			
Transformer		Swin Transformer: Hierarchical Vision Transformer using Shifted Windows			
į. Į	Swin Transformer		Swin Transformer v2		
a B			A ConvNet for the 2020s		
Ė	convolution in ViT	CvT: Introducing Convolutions to Vision Transformers	Demystifying local vision transformers: sparse connectivity, weight sharing, and dynamic weight		
	Locality in ViT	Local ViT: Bringing Locality to vision transformers	Densely Connected Convolutional Networks		
			inception-Densenet_		
		Spring Break			
	U-Net	U-Net: Convolutional Networks for Biomedical Image Segmentation	Eff-UNet: A Novel Architecture for Semantic Segmentation in Unstructured Environment		
Segmentation	FPN	Feature pyramid network for object detection			
	PVT	Pyramid Vision Transformer	Pyramid Vision Transformer V2		
	VAEs	Auto-Encoding Variational Bayes			
	GANs	Generative Adversarial Networ	Conditional Generative Adversarial NetworksLinks to an external site.		
Generative Models	Diffusion Models	2015: Deep Unsupervised Learning using Nonequilibrium Thermodynamics.Links to an external site.			
		Generative Modeling by Estimating Gradients of Data Distribution.			
		Denoising Diffusion Probabilistic Models.Links to an external site.	Improved Denoising Diffusion Probabilistic Models		
		Cold Diffusion: Inverting Arbitrary Image Transforms Without Noise.Links to an external site.			