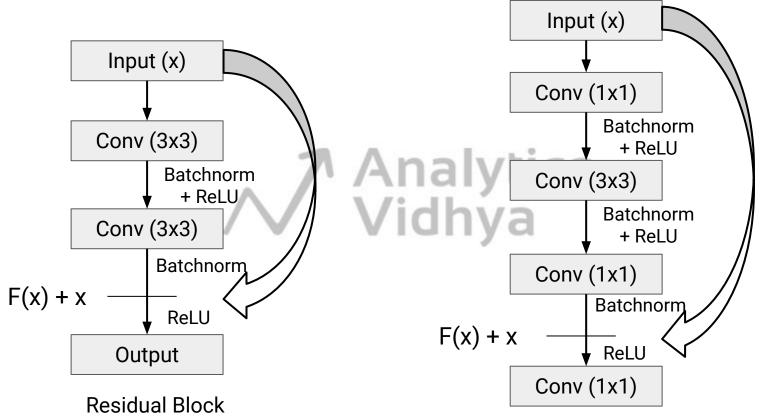


Residual Block for ResNet-34

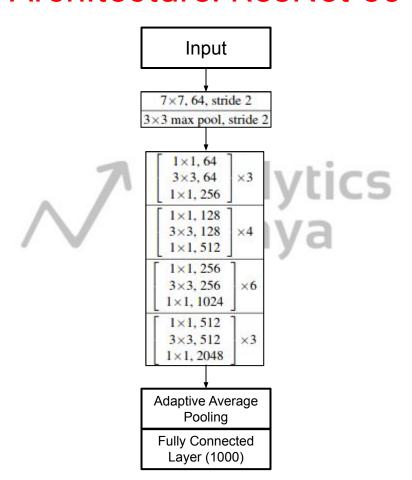




for ResNet-34

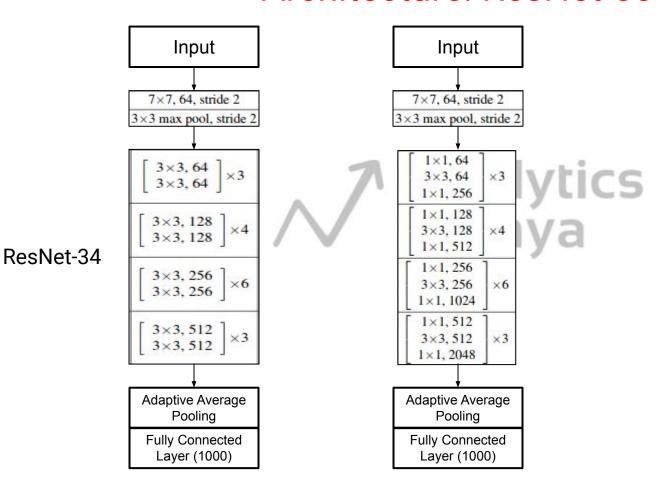


Architecture: ResNet-50





Architecture: ResNet-50





layer name	output size	18-layer	34-layer	50-layer		101-layer		152-layer	
convl	112×112		7×7, 64, stride 2						
conv2_x	56×56	3×3 max pool, stride 2							
		$\left[\begin{array}{c}3\times3,64\\3\times3,64\end{array}\right]\times2$	$\left[\begin{array}{c} 3\times3,64\\ 3\times3,64 \end{array}\right]\times3$	$\begin{bmatrix} 1 \times 1, 64 \\ 3 \times 3, 64 \\ 1 \times 1, 256 \end{bmatrix}$	×3	$\begin{bmatrix} 1 \times 1, 64 \\ 3 \times 3, 64 \\ 1 \times 1, 256 \end{bmatrix}$	×3	1×1, 64 3×3, 64 1×1, 256]×3
conv3_x	28×28	$\left[\begin{array}{c} 3 \times 3, 128 \\ 3 \times 3, 128 \end{array}\right] \times 2$	$\left[\begin{array}{c} 3\times3, 128\\ 3\times3, 128 \end{array}\right] \times 4$	1×1, 128 3×3, 128 1×1, 512	×4	1×1, 128 3×3, 128 1×1, 512	×4	1×1, 128 3×3, 128 1×1, 512	×8
conv4_x	14×14	$\left[\begin{array}{c}3\times3,256\\3\times3,256\end{array}\right]\times2$	$\left[\begin{array}{c} 3 \times 3, 256 \\ 3 \times 3, 256 \end{array}\right] \times 6$	1×1, 256 3×3, 256 1×1, 1024	×6	1×1, 256 3×3, 256 1×1, 1024	×23	1×1, 256 3×3, 256 1×1, 1024	×36
conv5_x	7×7	$\left[\begin{array}{c}3\times3,512\\3\times3,512\end{array}\right]\times2$	$\left[\begin{array}{c} 3\times3,512\\ 3\times3,512 \end{array}\right]\times3$	1×1, 512 3×3, 512 1×1, 2048	×3	1×1, 512 3×3, 512 1×1, 2048	x3	1×1,512 3×3,512 1×1,2048	×3
	1×1	average pool, 1000-d fc, softmax							







Model	Top-5 Error
ResNet-34	nalytic5.71%
/V Vi	dhya



Model	Top-5 Error
ResNet-34	nalytic5.71%
ResNet-50	dhya 5.25%



Model	Top-5 Error
ResNet-34	nalytic5.71%
ResNet-50	dhya 5.25%
ResNet-101	4.60%



Model	Top-5 Error
ResNet-34	nalytic5.71%
ResNet-50	dhya 5.25%
ResNet-101	4.60%
ResNet-151	4.49%





