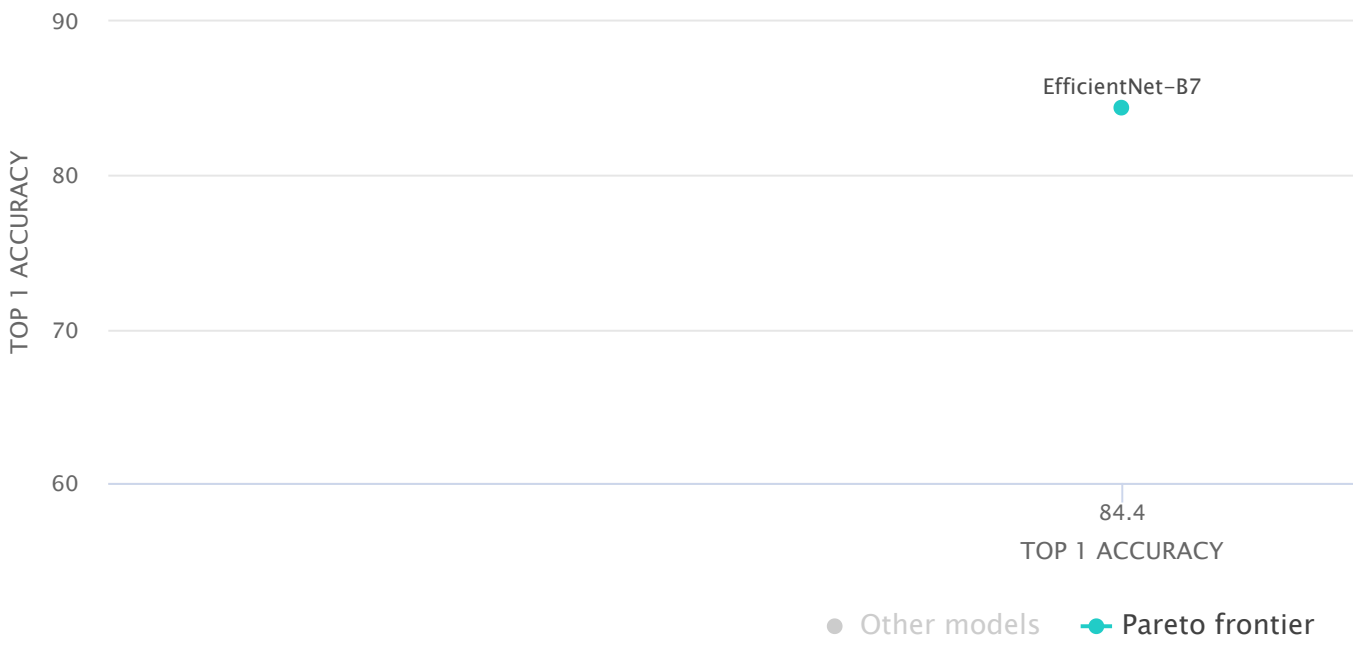
Image Classification

Image Classification on ImageNet

Leaderboard Dataset

View Top 1 Accuracy by Date for

Models using extra training data



Filter: ImageNet-1k only Transformer ResNet CNN EfficientNet ImageNet-22k JFT-300M MLP ResNeXt JFT-3B Neighborhood Attention NAT Transformer PatchConvnet Reversible FPN ALIGN Conv+Transformer CLIP data IG-1B Swin-Transformer Teacher-22k CrossCovarianceAttention FLD-900M Contrastive Self-Supervised Learning RegNet Mixer untagged

Edit Leaderboard

Showing 20 out of 764 rows. (clear all filters)

Rank	Model	Top 1 Accuracy	Top 5 Accuracy	Number of params	GFLOPs	Extra Training Data	Paper	Code	Result
1	**EfficientNet-B7**	84.4%	97.1	66M	37	✓	EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks		
2	**EfficientNet-B5**	83.3%	96.7	30M	9.9	✓	EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks		
3	**EfficientNet-B4**	82.6%	96.3	19M	4.2	✓	EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks		
4	**EfficientNet-B3**	81.1%	95.5	12M		✓	EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks		
5	**ResNet-101**	80.9%	95.2			✓	Parametric Contrastive Learning		

Rank	Model	Top 1 Accuracy	Top 5 Accuracy	Number of params	GFLOPs	Extra Training Data	Paper	Code	Result
6	**ResNet-101**	80%	95%	44.4M		✓	Bottleneck Transformers for Visual Recognition		
7	**EfficientNet-B2**	79.8%	94.9	9.2M	1	✓	EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks		
8	**ResNet-50**	78.8%	94.5%	25.5M		✓	Bottleneck Transformers for Visual Recognition		
9	**Inception V3**	78.8%	94.4%		4.8	✓	Rethinking the Inception Architecture for Computer Vision		
10	**EfficientNet-B1**	78.8%	94.4	7.8M	0.7	✓	EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks		
11	**ResNet-101**	78.25%	93.95	40M	7.6	✓	Deep Residual Learning for Image Recognition		

Rank	Model	Top 1 Accuracy	Top 5 Accuracy	Number of params	GFLOPs	Extra Training Data	Paper	Code	Result
12	**EfficientNet-B0**	76.3%	93.2	5.3M	0.39	✓	EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks		
13	**ShuffleNet V2**	75.4%			0.597	✓	ShuffleNet V2: Practical Guidelines for Efficient CNN Architecture Design		
14	**ResNet-50**	75.3%	93.29	25M	3.8	✓	Deep Residual Learning for Image Recognition		
15	**MobileNetV2** (1.4)	74.7%		6.9M	1.170	✓	MobileNetV2: Inverted Residuals and Linear Bottlenecks		
16	**VGG-19**	74.5%	92.0	144M		✓	Very Deep Convolutional Networks for Large-Scale Image Recognition		
17	**VGG-16**	74.4%	91.9	138M		✓	Very Deep Convolutional Networks for Large-Scale Image Recognition		

Rank	Model	Top 1 Accuracy	Top 5 Accuracy	Number of params	GFLOPs	Extra Training Data	Paper	Code	Result
18	**ResNet-50**	72.1%				✓	On the adequacy of untuned warmup for adaptive optimization		
19	**MobileNetV2**	72%		3.4M	0.600	✓	MobileNetV2: Inverted Residuals and Linear Bottlenecks		
20	**AlexNet**	63.3%	84.6%	60M		✓	ImageNet Classification with Deep Convolutional Neural Networks		