

CleanAI Analysis Report

Model Informations

The table below shows general information about the 'ResNet' model.

| | Model name | Total params | Number of layers |
|--------------|------------|--------------|------------------|
| Informations | ResNet | 25557032 | 151 |

Coverage Values of Layers

The table below shows coverage values about the 'ResNet' model's all layers. The 'mean of layer' value shows the average of neurons in that layer. When calculating the number of covered neurons, this value is accepted as the threshold value for that layer. NOTE: The coverage value of a layer is the ratio of the number of covered neurons to the total number of neurons in that layer. The values in the table below, it was formed as a result of giving the 'photo-1560807707-8cc77767d783.jpeg' input in the data set to the model.

| Layer index | Activation function | Number of covered neurons | Number of total neurons | Coverage value | Mean of layer |
|-------------|---------------------|---------------------------|-------------------------|----------------|---------------|
| Layer 3 | ReLU | 47539896 | 160981504 | 29.53% | 0.24 |
| Layer 13 | ReLU | 82570323 | 161098752 | 51.25% | 0.14 |
| Layer 24 | ReLU | 78569199 | 161098752 | 48.77% | 0.16 |
| Layer 32 | ReLU | 81445389 | 161098752 | 50.56% | 0.17 |
| Layer 41 | ReLU | 24809725 | 80666624 | 30.76% | 0.07 |
| Layer 52 | ReLU | 27512481 | 80666624 | 34.11% | 0.08 |
| Layer 60 | ReLU | 26760719 | 80666624 | 33.17% | 0.07 |
| Layer 68 | ReLU | 26430481 | 80666624 | 32.77% | 0.07 |
| Layer 77 | ReLU | 10370220 | 40333312 | 25.71% | 0.05 |
| Layer 88 | ReLU | 11353718 | 40333312 | 28.15% | 0.04 |
| Layer 96 | ReLU | 11305708 | 40333312 | 28.03% | 0.04 |
| Layer 104 | ReLU | 10962258 | 40333312 | 27.18% | 0.04 |
| Layer 112 | ReLU | 10306684 | 40333312 | 25.55% | 0.04 |
| Layer 120 | ReLU | 9930395 | 40333312 | 24.62% | 0.03 |
| Layer 129 | ReLU | 4679587 | 20254720 | 23.10% | 0.09 |
| Layer 140 | ReLU | 5073037 | 20254720 | 25.05% | 0.16 |
| Layer 148 | ReLU | 4772566 | 20254720 | 23.56% | 0.20 |
| All model | - | 474392386 | 1269708288 | 37.36% | |

Threshold Coverage Values of Layers (TH = 0)

The table below shows threshold coverage values about the 'ResNet' model's all layers. NOTE: The threshold coverage value of a layer is the ratio of the number of covered neurons (number of neurons greater than the threshold value) to the total number of neurons in that layer. The values in the table below, it was formed as a result of giving the 'photo-1560807707-8cc77767d783.jpeg' input in the data set to the model.

| Layer index | Activation function | Number of covered neurons | Number of total neurons | Coverage value |
|-------------|---------------------|---------------------------|-------------------------|----------------|
| Layer 3 | ReLU | 138322647 | 160981504 | 85.92% |
| Layer 13 | ReLU | 117125752 | 161098752 | 72.70% |
| Layer 24 | ReLU | 132748733 | 161098752 | 82.40% |
| Layer 32 | ReLU | 144551676 | 161098752 | 89.73% |
| Layer 41 | ReLU | 36082838 | 80666624 | 44.73% |
| Layer 52 | ReLU | 50409779 | 80666624 | 62.49% |
| Layer 60 | ReLU | 45705373 | 80666624 | 56.66% |
| Layer 68 | ReLU | 44003181 | 80666624 | 54.55% |
| Layer 77 | ReLU | 13912628 | 40333312 | 34.49% |
| Layer 88 | ReLU | 17150800 | 40333312 | 42.52% |
| Layer 96 | ReLU | 16883294 | 40333312 | 41.86% |
| Layer 104 | ReLU | 18629686 | 40333312 | 46.19% |
| Layer 112 | ReLU | 16832352 | 40333312 | 41.73% |
| Layer 120 | ReLU | 15255139 | 40333312 | 37.82% |
| Layer 129 | ReLU | 6271486 | 20254720 | 30.96% |
| Layer 140 | ReLU | 7597222 | 20254720 | 37.51% |
| Layer 148 | ReLU | 7296189 | 20254720 | 36.02% |
| All model | - | 828778775 | 1269708288 | 65.27% |

Threshold Coverage Values of Layers (TH = 0.75)

The table below shows threshold coverage values about the 'ResNet' model's all layers. NOTE: The threshold coverage value of a layer is the ratio of the number of covered neurons (number of neurons greater than the threshold value) to the total number of neurons in that layer. The values in the table below, it was formed as a result of giving the 'photo-1560807707-8cc77767d783.jpeg' input in the data set to the model.

| Layer index | Activation function | Number of covered neurons | Number of total neurons | Coverage value |
|-------------|---------------------|---------------------------|-------------------------|----------------|
| Layer 3 | ReLU | 5570863 | 160981504 | 3.46% |
| Layer 13 | ReLU | 735 | 161098752 | 0.00% |
| Layer 24 | ReLU | 8206 | 161098752 | 0.01% |
| Layer 32 | ReLU | 9331 | 161098752 | 0.01% |
| Layer 41 | ReLU | 48488 | 80666624 | 0.06% |

| | | | | |
|-----------|------|---------|------------|-------|
| Layer 52 | ReLU | 24595 | 80666624 | 0.03% |
| Layer 60 | ReLU | 9096 | 80666624 | 0.01% |
| Layer 68 | ReLU | 17141 | 80666624 | 0.02% |
| Layer 77 | ReLU | 5381 | 40333312 | 0.01% |
| Layer 88 | ReLU | 27214 | 40333312 | 0.07% |
| Layer 96 | ReLU | 23660 | 40333312 | 0.06% |
| Layer 104 | ReLU | 22942 | 40333312 | 0.06% |
| Layer 112 | ReLU | 22381 | 40333312 | 0.06% |
| Layer 120 | ReLU | 10675 | 40333312 | 0.03% |
| Layer 129 | ReLU | 482625 | 20254720 | 2.38% |
| Layer 140 | ReLU | 1102796 | 20254720 | 5.44% |
| Layer 148 | ReLU | 1685786 | 20254720 | 8.32% |
| All model | - | 9071915 | 1269708288 | 0.71% |