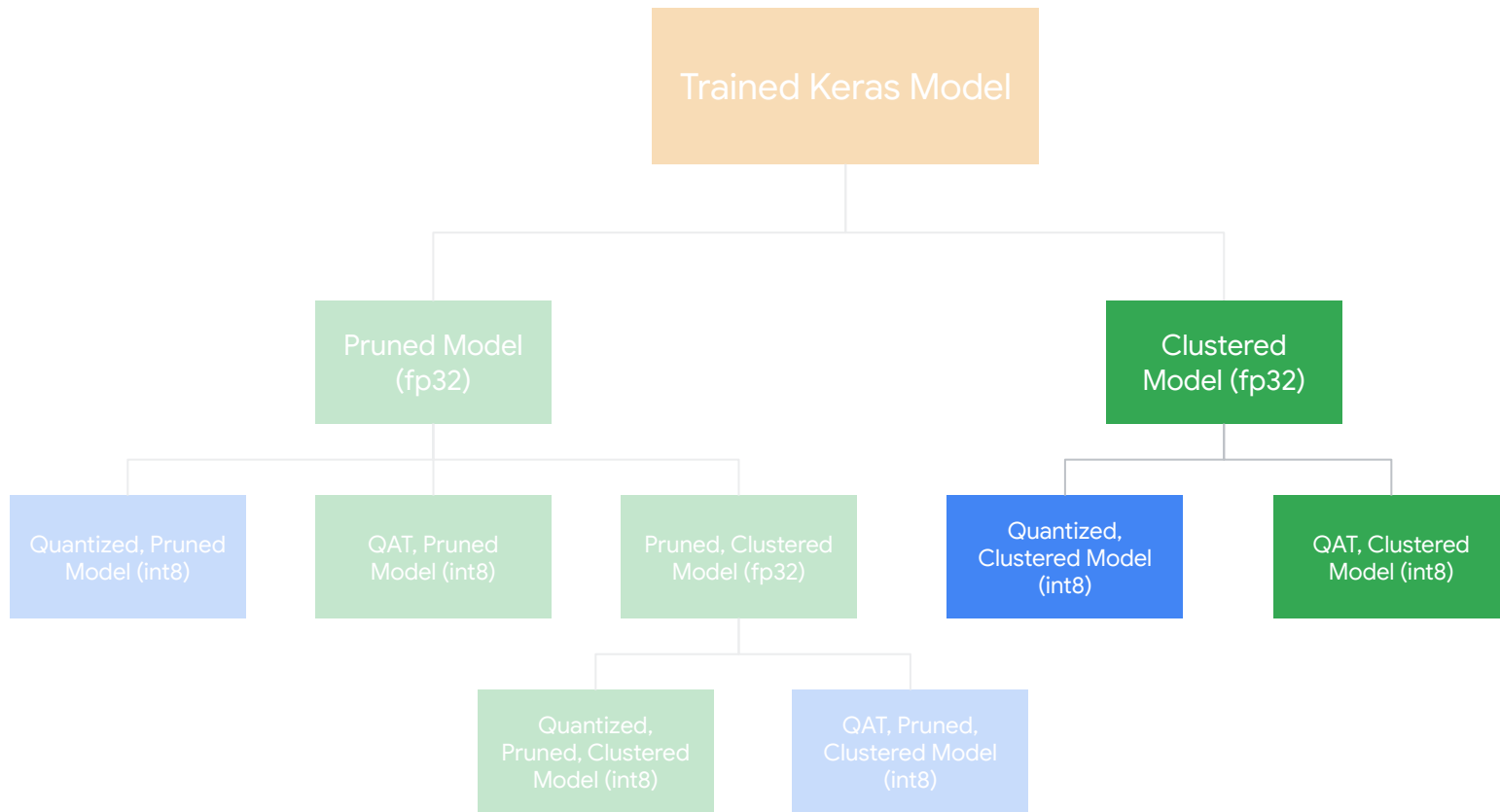


Model Optimizations: Clustering





weight
matrix

0.86	-1.88	-1.49	-0.51
-1.7	1.58	0.12	-2.38
1.9	-2.19	1.37	-2.79
1.92	0.46	2.85	0.61

weight
matrix

0.86	-1.88	-1.49	-0.51
-1.7	1.58	0.12	-2.38
1.9	-2.19	1.37	-2.79
1.92	0.46	2.85	0.61

weight
matrix

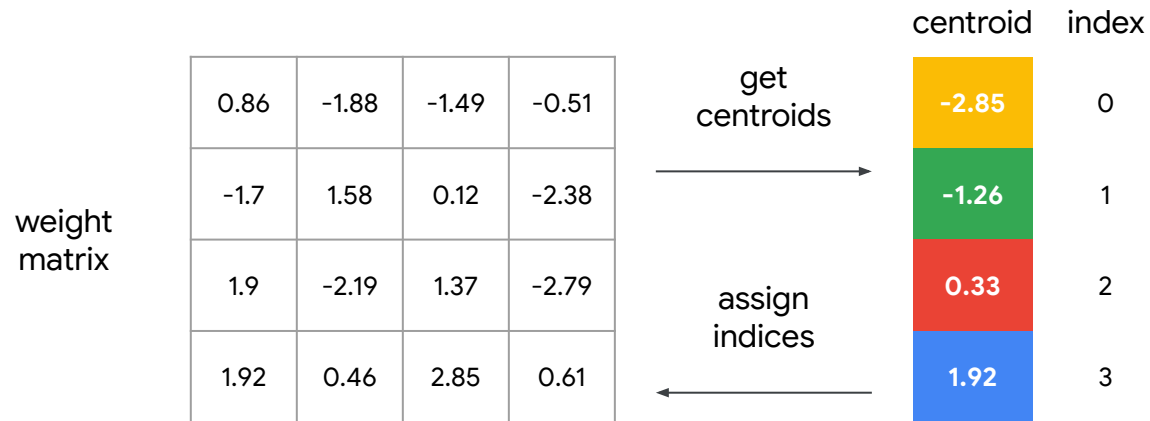
0.86	-1.88	-1.49	-0.51
-1.7	1.58	0.12	-2.38
1.9	-2.19	1.37	-2.79
1.92	0.46	2.85	0.61

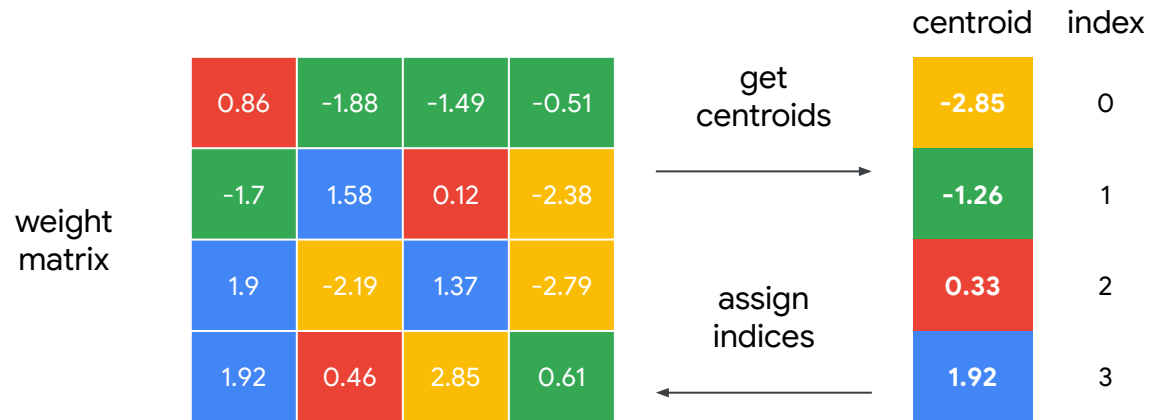
get
centroids

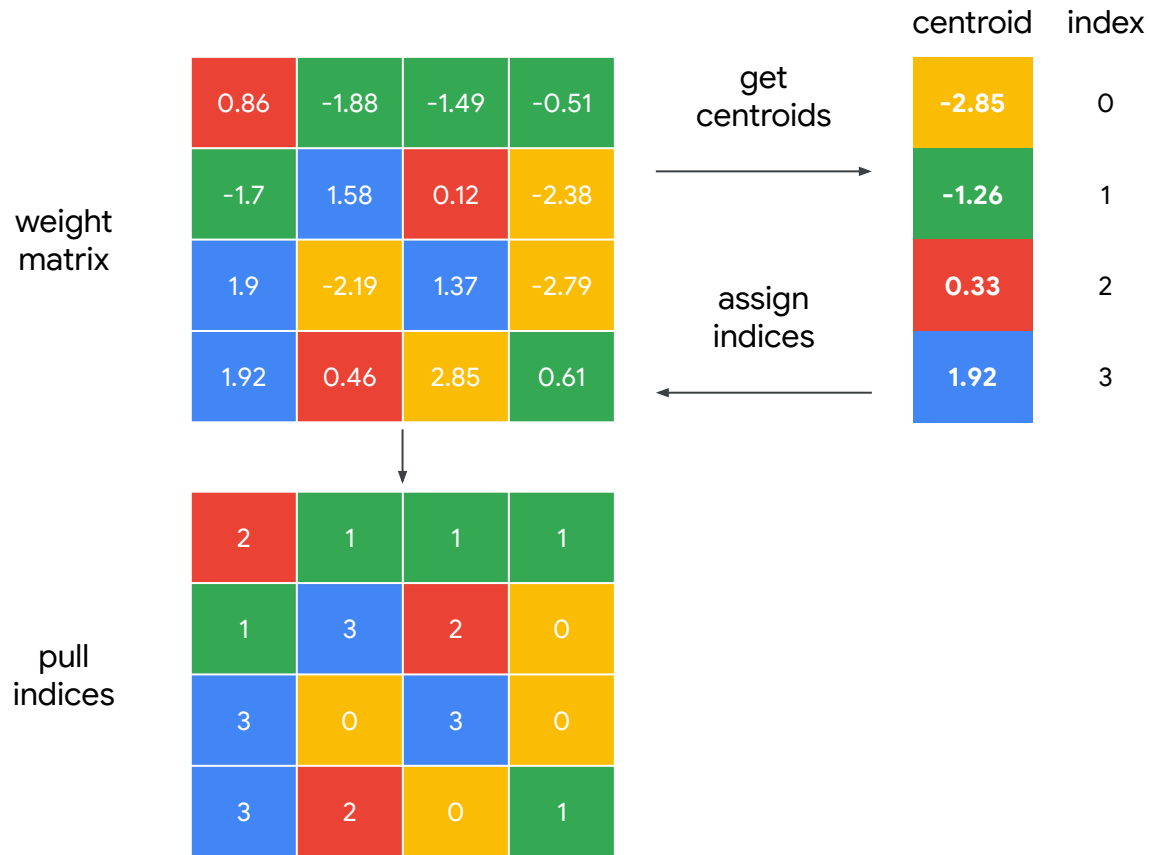


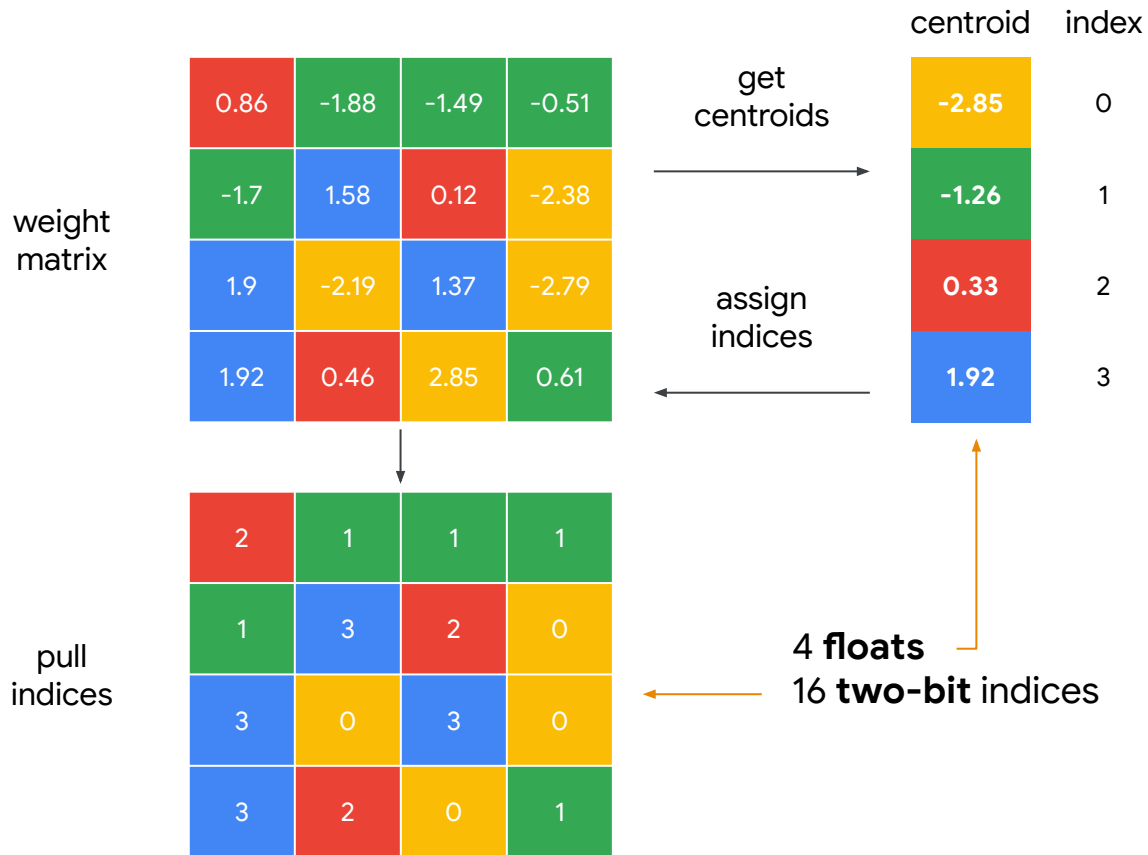
centroid

-2.85
-1.26
0.33
1.92









Model	Dataset	Size of TensorFlow Lite Model (Compressed Via Zip)			Top-1 Accuracy		
		Original	Clustered	Reduction	Original	Clustered	Delta
ConvNet	MNIST	0.57 MB	0.09 MB	6.3x	99.40%	98.78%	-0.62%
MobileNetV2	ImageNet	12.90 MB	7.00 MB	1.8x	72.29%	72.31%	+0.02%
			2.60 MB	5.0x		69.33%	-2.96%
MobileNetV1	ImageNet	14.96 MB	8.42 MB	1.7x	71.02%	70.62%	-0.40%
			2.98 MB	5.0x		66.07%	-4.95%
DS-CNN-L	Speech Commands v0.02	1.50 MB	0.30 MB	5.0x	95.03%	94.71%	-0.32%

