

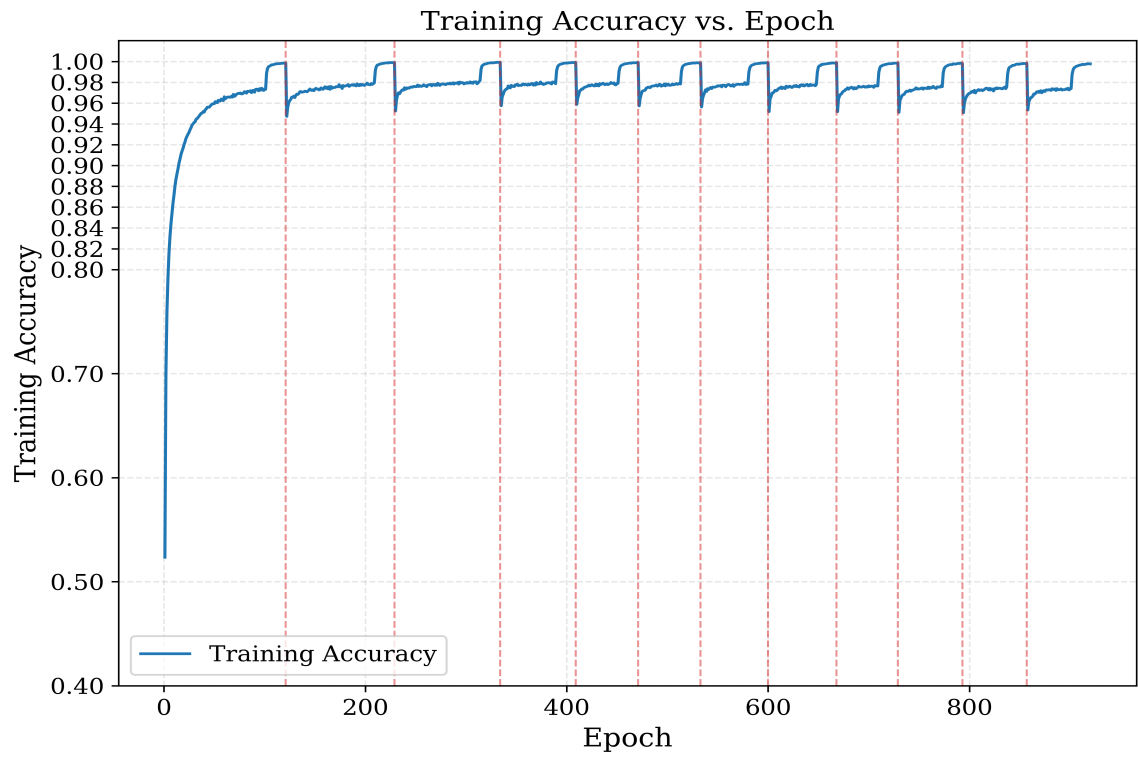
# Analysis Report

## Hyperparameters

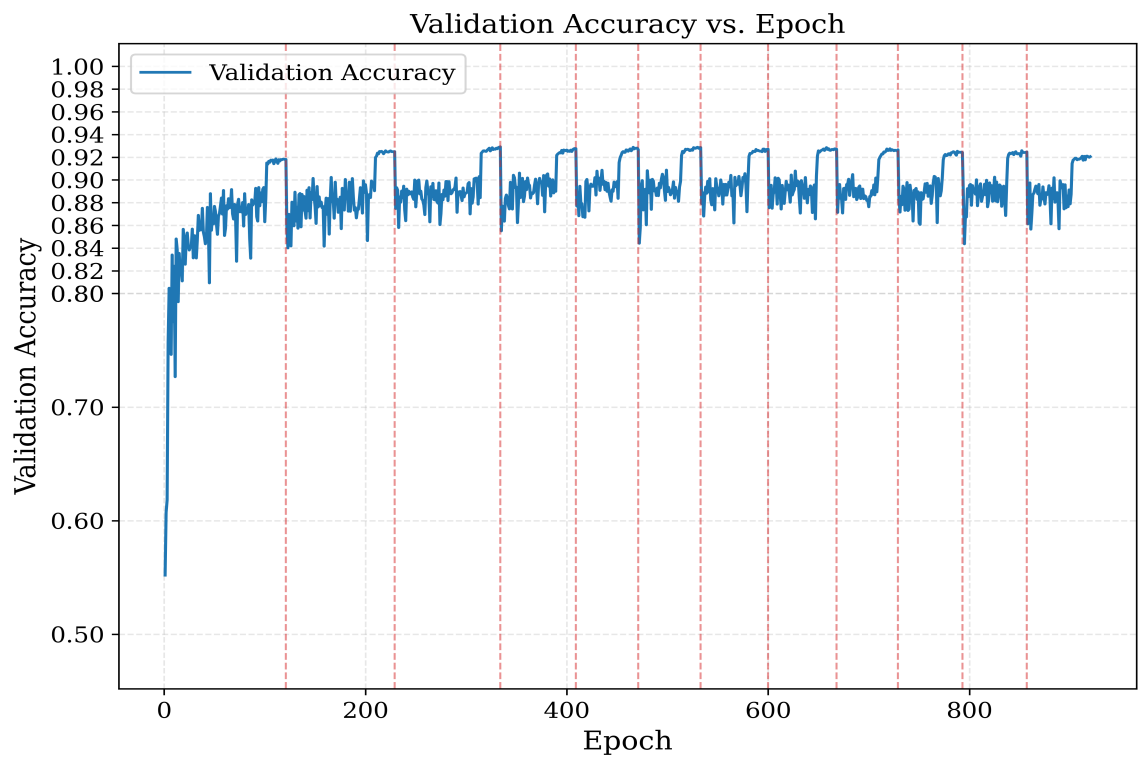
Parameter	Value
ARCHITECTURE_NAME	ResNet56
CRITERION_FILTER	CKA
CRITERION_LAYER	CKA
P_FILTER	0.08
P_LAYER	2
MAX_EPOCHS	1000
MOMENTUM	0.9
BATCH_SIZE	64
MIN_INITIAL_TRAIN_EPOCHS	1
MIN_POST_PRUNE_TRAIN_EPOCHS	1
ROTATION_STABLE_EPOCHS	5
ROTATION_DERIVATIVE_THRESHOLD	0.1
TRAIN_EPOCHS_AFTER_LR_DROP_10x	15
TRAIN_EPOCHS_AFTER_LR_DROP_100x	5

**Defined SOTA Accuracy: 92.30%**

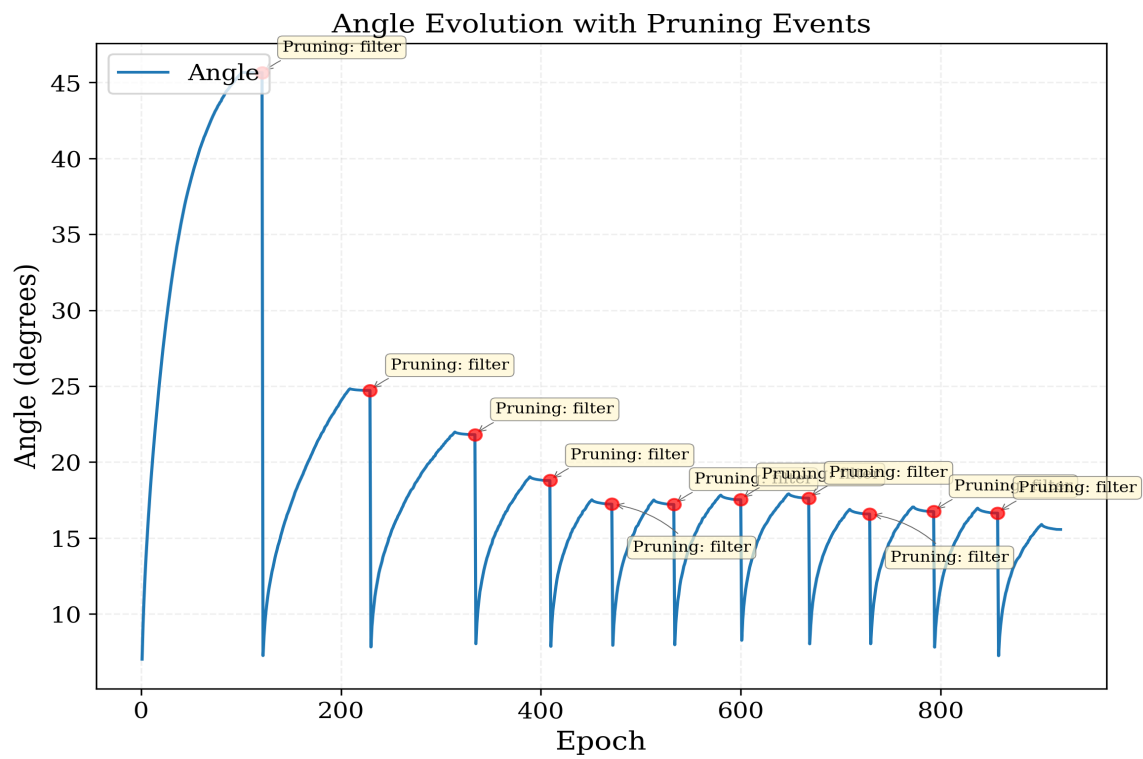
## Training Accuracy



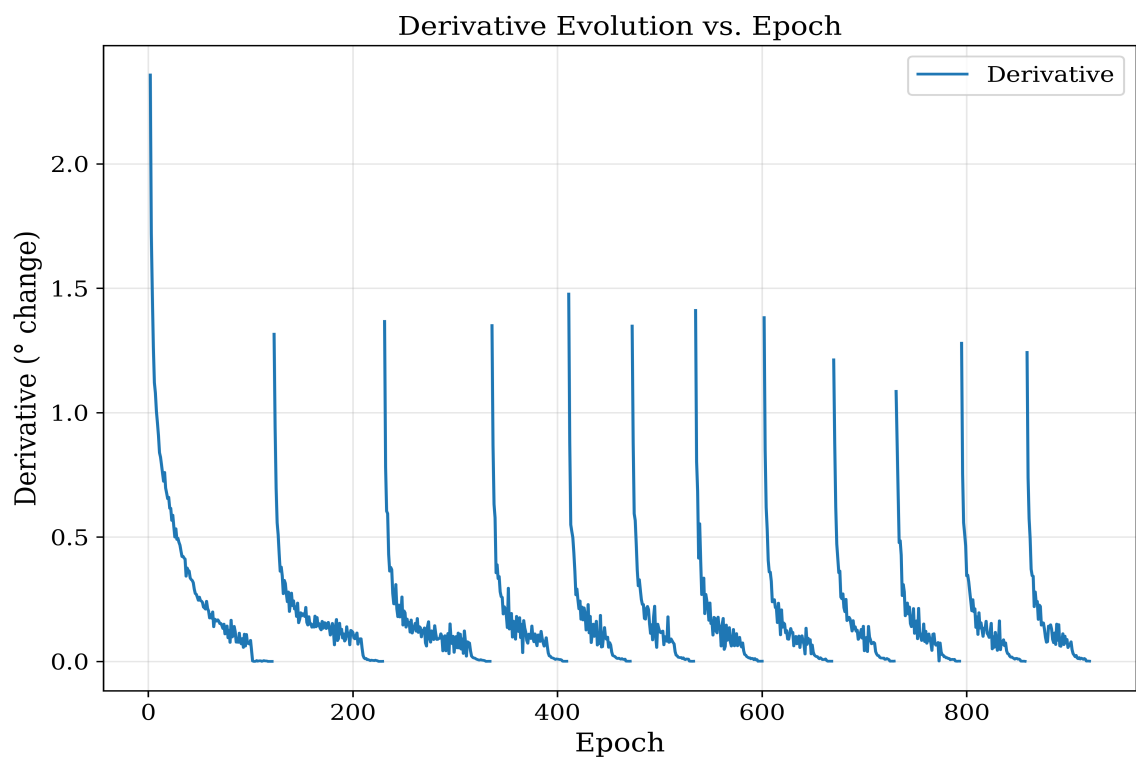
## Validation Accuracy



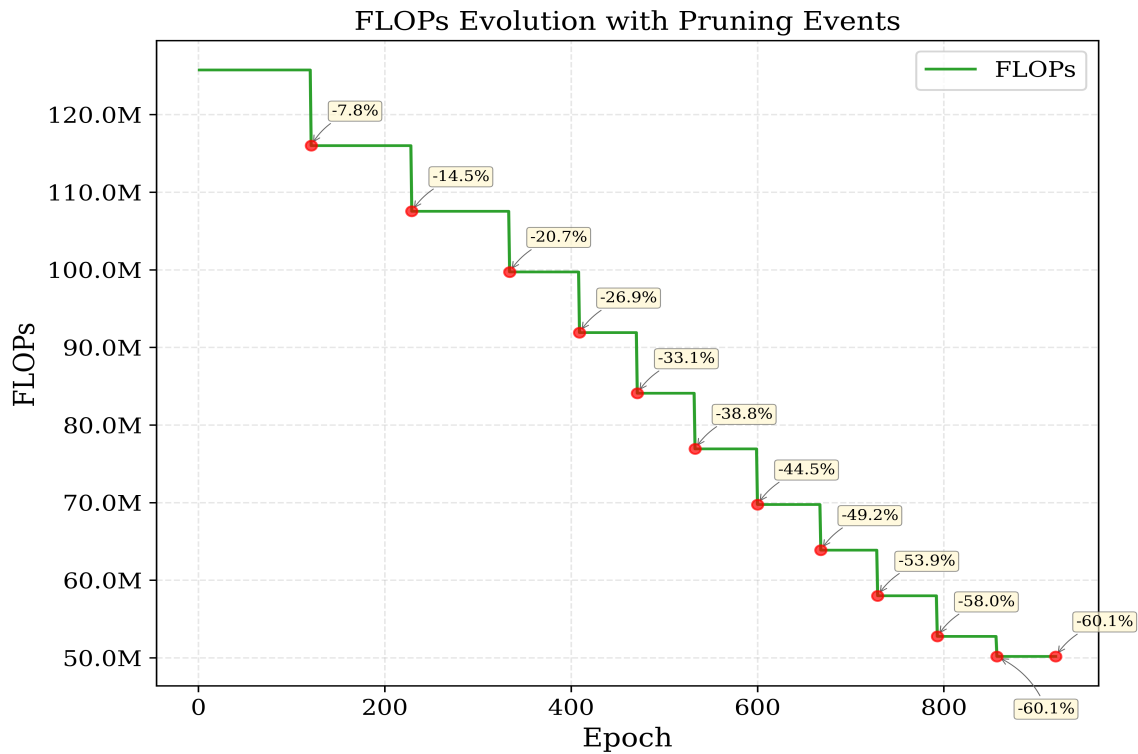
## Angle Evolution



## Derivative Evolution



## FLOPs Evolution



## Accuracy vs. FLOPs

FLOPs (M)	Reduction (%)	Max Val Acc (%)	Final Val Acc (%)	$\Delta$ SOTA (%)
125.7	0.0	91.86	91.81	-0.49%
116.0	7.8	92.57	92.50	+0.20%
107.5	14.5	92.92	92.92	+0.62%
99.7	20.7	92.92	92.76	+0.46%
91.9	26.9	92.88	92.67	+0.37%
84.1	33.1	92.88	92.86	+0.56%
76.9	38.8	92.86	92.71	+0.41%
69.8	44.5	92.85	92.71	+0.41%
63.9	49.2	92.75	92.66	+0.36%
58.0	53.9	92.66	92.42	+0.12%
52.8	58.0	92.58	92.47	+0.17%
50.2	60.1	92.47	92.05	-0.25%