

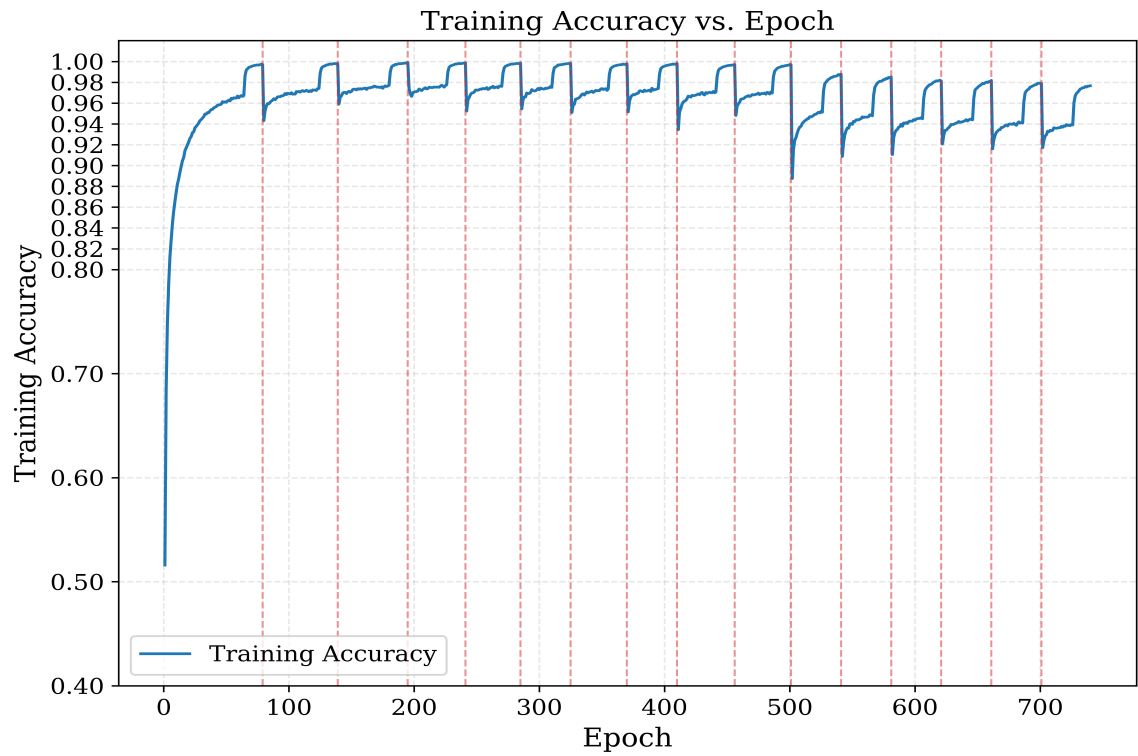
# Analysis Report

## Hyperparameters

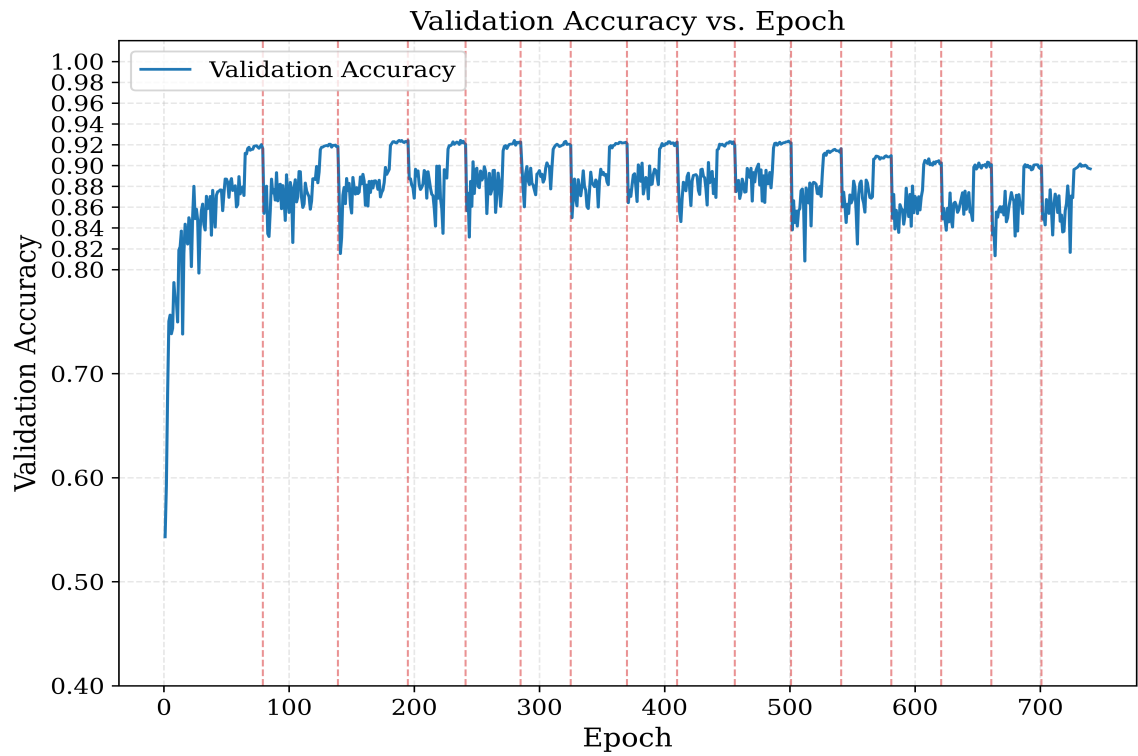
Parameter	Value
ARCHITECTURE_NAME	ResNet56
CRITERION_FILTER	random
CRITERION_LAYER	random
P_FILTER	0.08
P_LAYER	2
MAX_EPOCHS	800
MOMENTUM	0.9
BATCH_SIZE	64
MIN_INITIAL_TRAIN_EPOCHS	50
MIN_POST_PRUNE_TRAIN_EPOCHS	25
ROTATION_STABLE_EPOCHS	5
ROTATION_DERIVATIVE_THRESHOLD	0.2
TRAIN_EPOCHS_AFTER_LR_DROP	15

**Defined SOTA Accuracy: 92.40%**

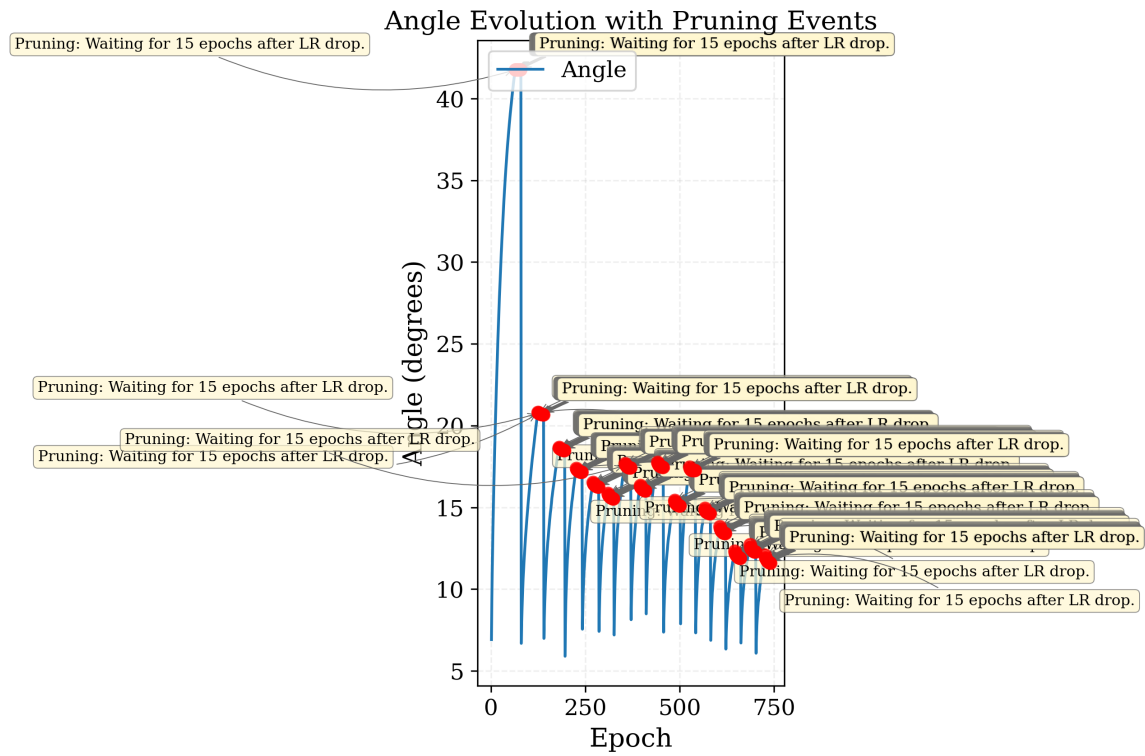
## Training Accuracy



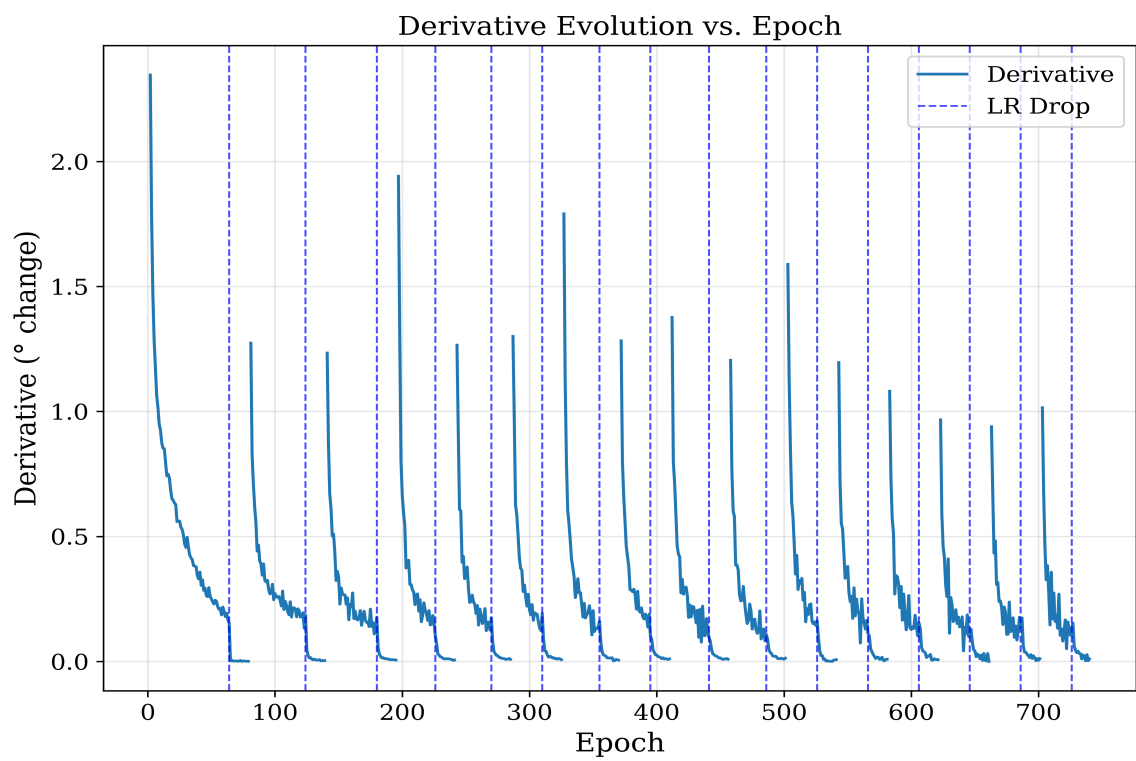
## Validation Accuracy



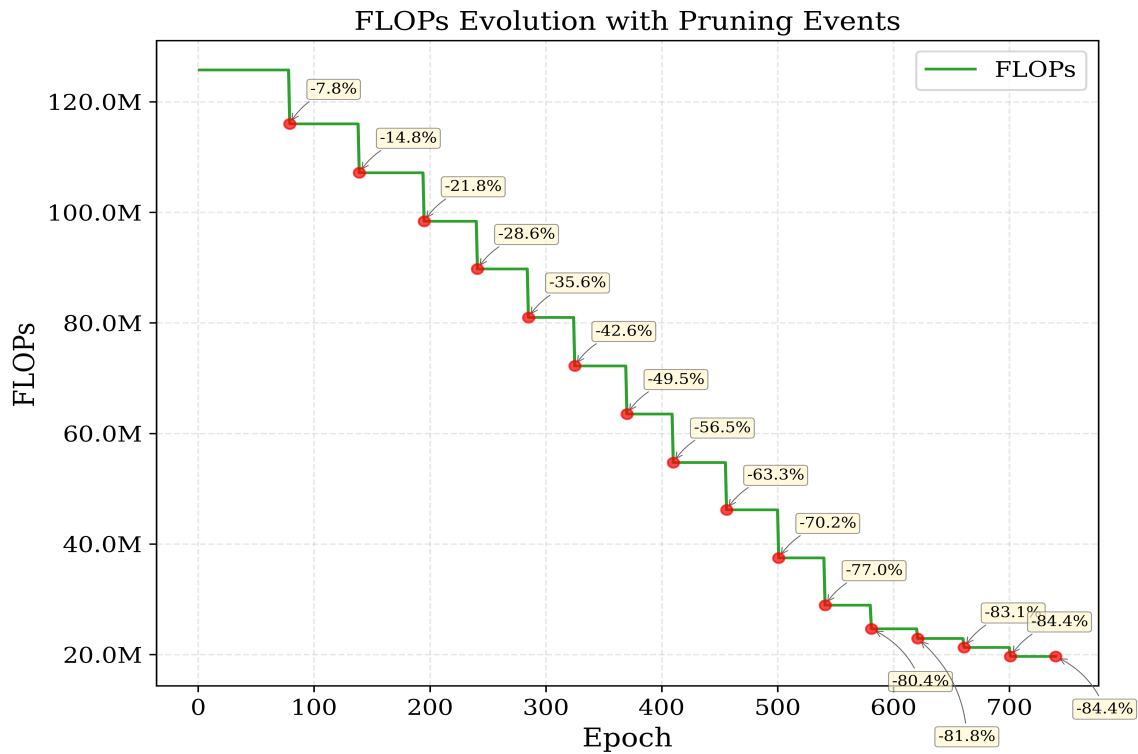
## Angle Evolution



## Derivative Evolution



## FLOPs Evolution



## Accuracy vs. FLOPs

FLOPs (M)	Reduction (%)	Max Val Acc (%)	Final Val Acc (%)	$\Delta$ SOTA (%)
125.7	0.0	92.02	91.61	-0.79%
116.0	7.8	92.05	91.84	-0.56%
107.1	14.8	92.42	92.41	+0.01%
98.4	21.8	92.42	92.05	-0.35%
89.8	28.6	92.41	92.26	-0.14%
81.0	35.6	92.33	91.95	-0.45%
72.2	42.6	92.24	92.09	-0.31%
63.5	49.5	92.29	92.26	-0.14%
54.7	56.5	92.30	91.95	-0.45%
46.2	63.3	92.35	92.18	-0.22%
37.5	70.2	92.18	91.63	-0.77%
28.9	77.0	91.63	90.96	-1.44%
24.6	80.4	90.96	90.26	-2.14%
22.9	81.8	90.33	90.10	-2.30%

21.3	83.1	90.10	90.00	-2.40%
19.7	84.4	90.16	89.68	-2.72%