ANOMALIB

JAN 2025

MODELS

- EfficientAd
- Patchcore
- Padim

EFFICIENTAD

- Unsupervised mothod
- Primarily designed for anomaly localization task
- If we want to use for classification task
 - adjusting its threshold for anomaly detection
- Choosing the right threshold is critical

RESULTS OF EFFICIENTAD

EFFICIENTAD

Traning for 15 epochs

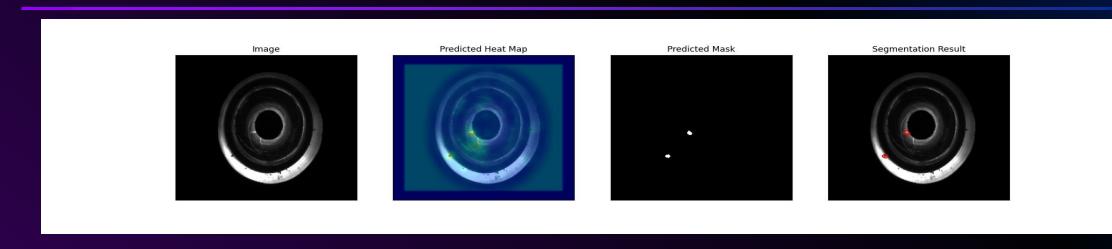
Name	Туре	Params	Mode
<pre>0 model 1 _transform 2 normalization_metrics 3 image_threshold 4 pixel_threshold 5 image_metrics</pre>	EfficientAdModel Compose MetricCollection F1AdaptiveThreshold F1AdaptiveThreshold	 8.1 M 0 0 0 0	train train train train train train
6 pixel_metrics	AnomalibMetricCollection	0	train

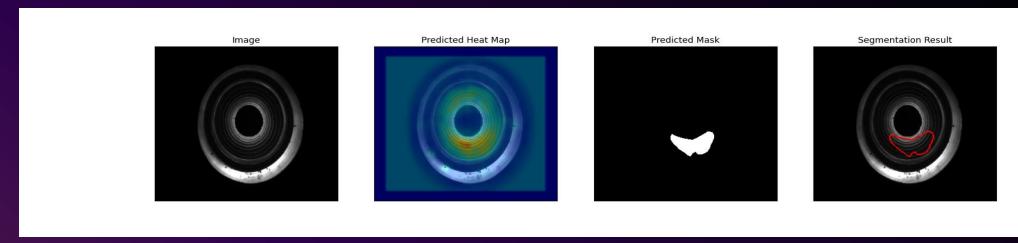
Test metric	DataLoader 0
image_AUROC	0.9887481927871704
image_F1Score	0.9873417615890503

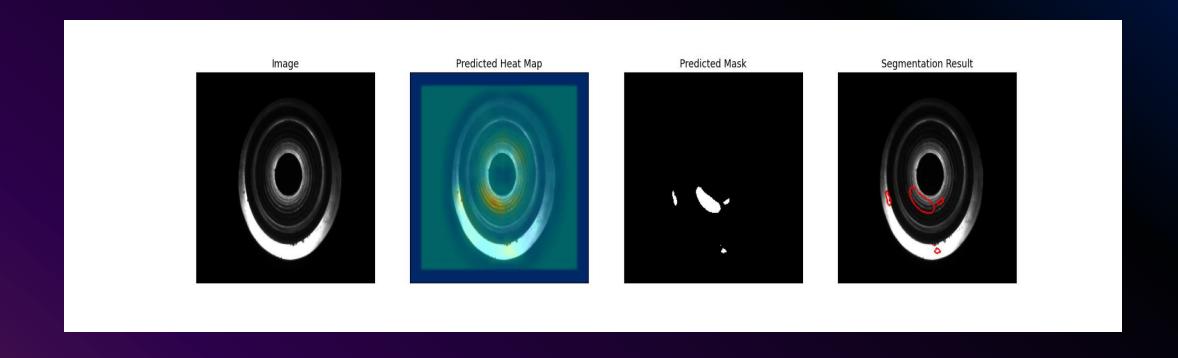
Test Results: [{'image_AUROC': 0.9887481927871704, 'image_F1Score': 0.9873417615890503}]

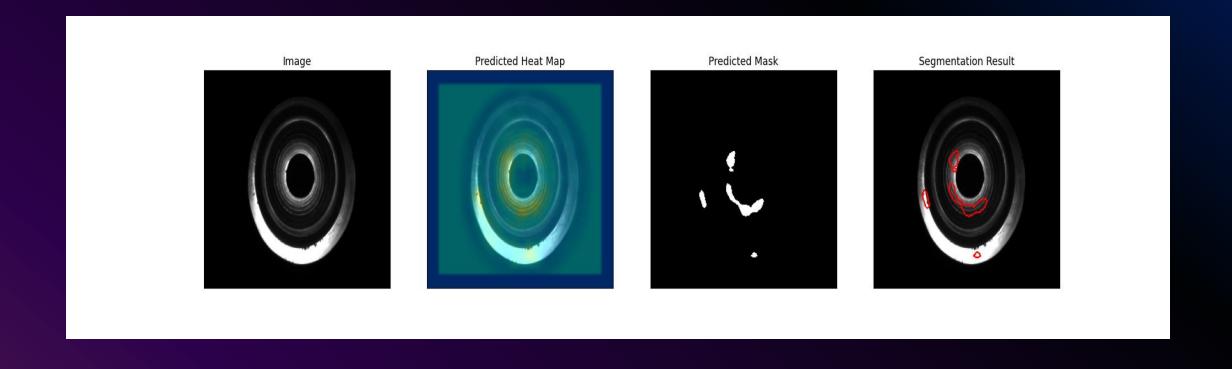


KO CLASS

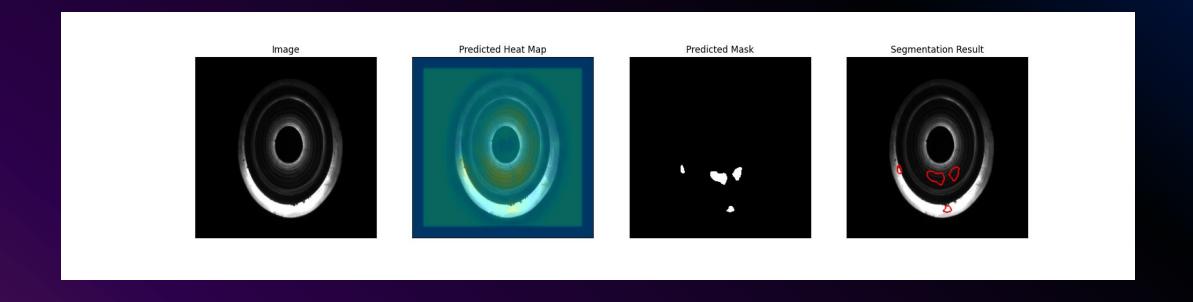








RZOK CLASS



PATCHCORE

- Operates as an unsupervised technique
- Primarily designed for anomaly localization task
- For classification purposes(same as efficientAD)

RESULTS OF PATCHCORE

PATCHCORE

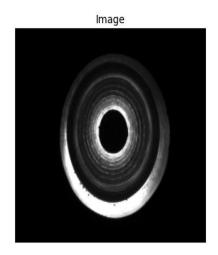
Traning for 15 epochs

Name	Туре	Params	Mode
<pre>0 model 1 _transform 2 normalization_metrics 3 image_threshold 4 pixel_threshold 5 image_metrics 6 pixel_metrics</pre>	F1AdaptiveThreshold F1AdaptiveThreshold AnomalibMetricCollection	24.9 M 0 0 0 0 0	train train train train train train train train train

Test metric	DataLoader 0
image_AUROC	8.8985935688019799
image_F1Score	0.9673202033859727

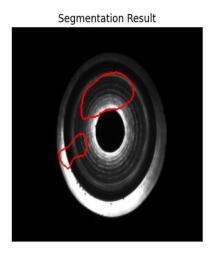
Test Results: [{'image_AUROC': 0.9985935688018799, 'image_F1Score': 0.9673202633857727}]

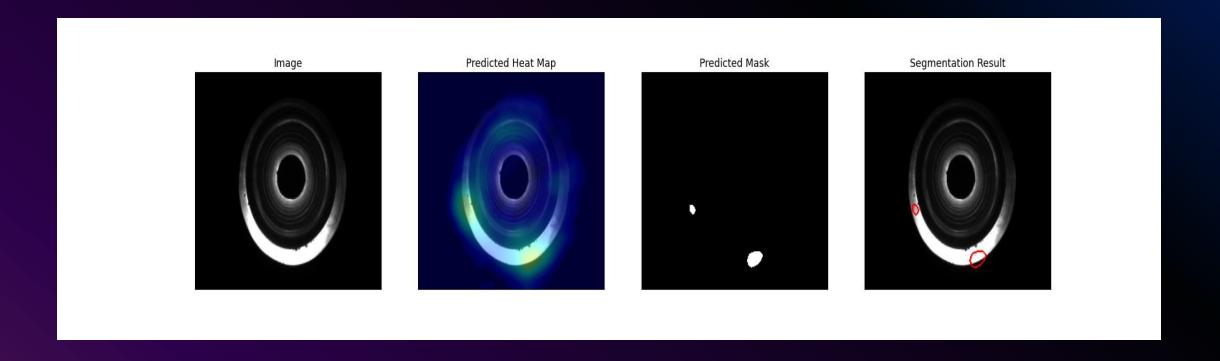
KO CLASS



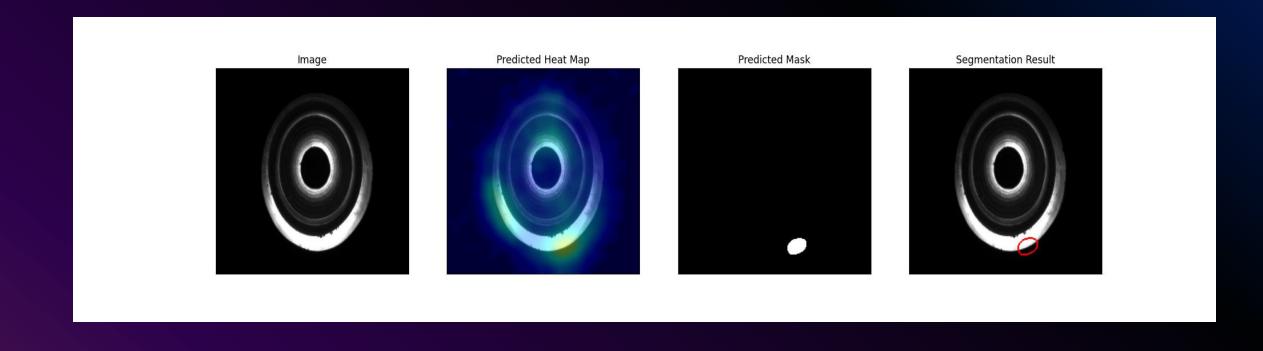








RZOK CLASS



RESULTS OF PADIM

PADIM

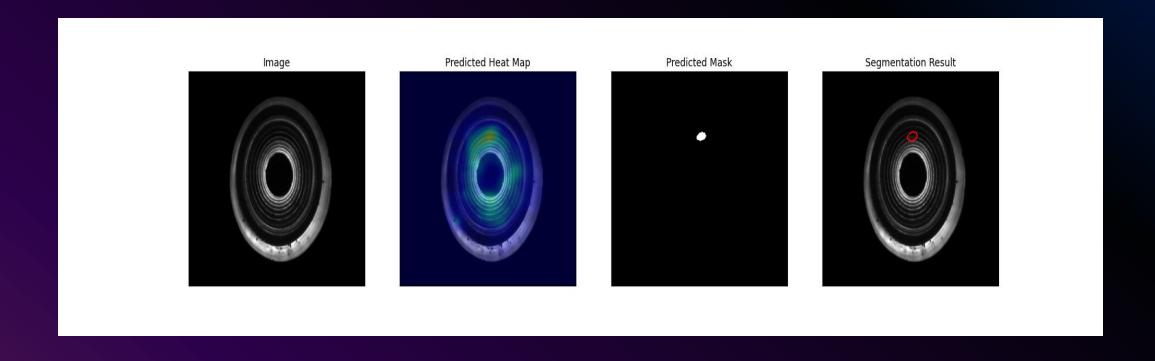
- Similar to the two previous methods
- Traning for 15 epochs

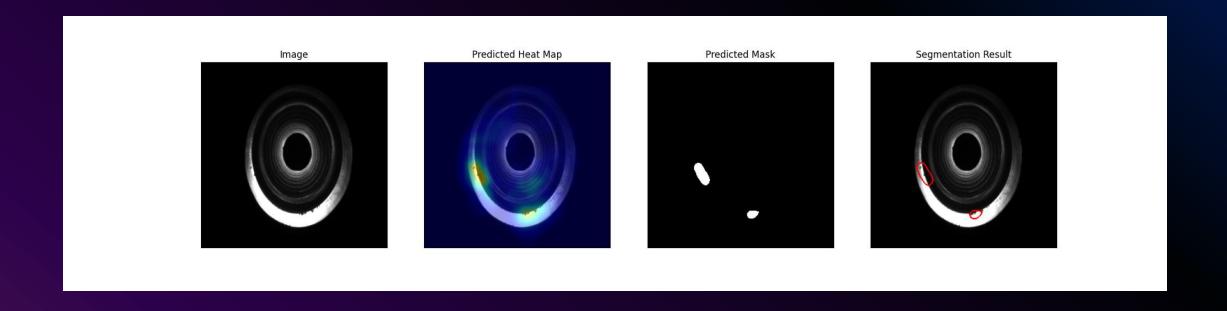
	Name	Туре	Params	Mode
0	model	PadimModel	2.8 M	train
1	_transform	Compose	0	train
2	normalization_metrics	MetricCollection	0	train
3	image_threshold	F1AdaptiveThreshold	0	train
4	pixel_threshold	F1AdaptiveThreshold	0	train
5	image_metrics	AnomalibMetricCollection	0	train
6	pixel_metrics	AnomalibMetricCollection	0	train
2 8	M Trainahla narams			

Test metric	DataLoader 0
image_AUROC	1.0
image_F1Score	0.9924812316894531

Test Results: [{'image_AUROC': 1.0, 'image_F1Score': 0.9924812316894531}]

KO CLASS





RZOK CLASS

