Time Analysis Report

Test Dataset :

No of Normal Images	31
No of Anomalous Images	38

Inference Time = It refers to the duration required to process both normal and anomalous images, compute metrics such as AUROC, Precision, Recall, and F1-Score, and generate and save anomaly maps for anomalous images in the output folder.

Experiments:

The Experiments are performed on the Test Dataset.

Model	Backbone	Layers	Sampling Rate	Inference Time
PatchCore	Resnet50	(2,3)	10%	759.22 s
PatchCore	Resnet101	(2,3)	10%	763.75 s
PatchCore	ViT-large	(6,8,10)	10%	38.29 s
PatchCore	ViT-base	(6,8,10)	10%	60.21 s
EfficientAD - s	Wideresnet101	-	-	24.58 s
EfficientAD - m	Wideresnet101	-	-	25.10 s

PatchCore models with ResNet50 and ResNet101 have the highest inference times (759.22s and 763.75s). ViT-based PatchCore models are significantly faster, with ViT-large reducing inference time by **94.98%** and ViT-base by **92.08%** compared to ResNet101.

EfficientAD models achieve the lowest times (24.58s and 25.10s), offering a **96.78% reduction** compared to ResNet101 and **35.79%** compared to ViT-large.