

Detection Tasks

Object Detection Basics

Localizing and classifying objects. Bounding boxes around lesions, nodules, fractures

YOLO for Medical

Real-time detection. Fast inference for large 3D volumes or video

Faster R-CNN

Two-stage detector. Higher accuracy, commonly used in medical imaging

Anchor-Free Methods

FCOS, CenterNet. Simpler pipelines without anchor design

3D Detection

Extending to volumetric data. 3D bounding boxes for CT/MRI lesions