

Rapport de Validation des Modèles 3D - Cancer du Poumon

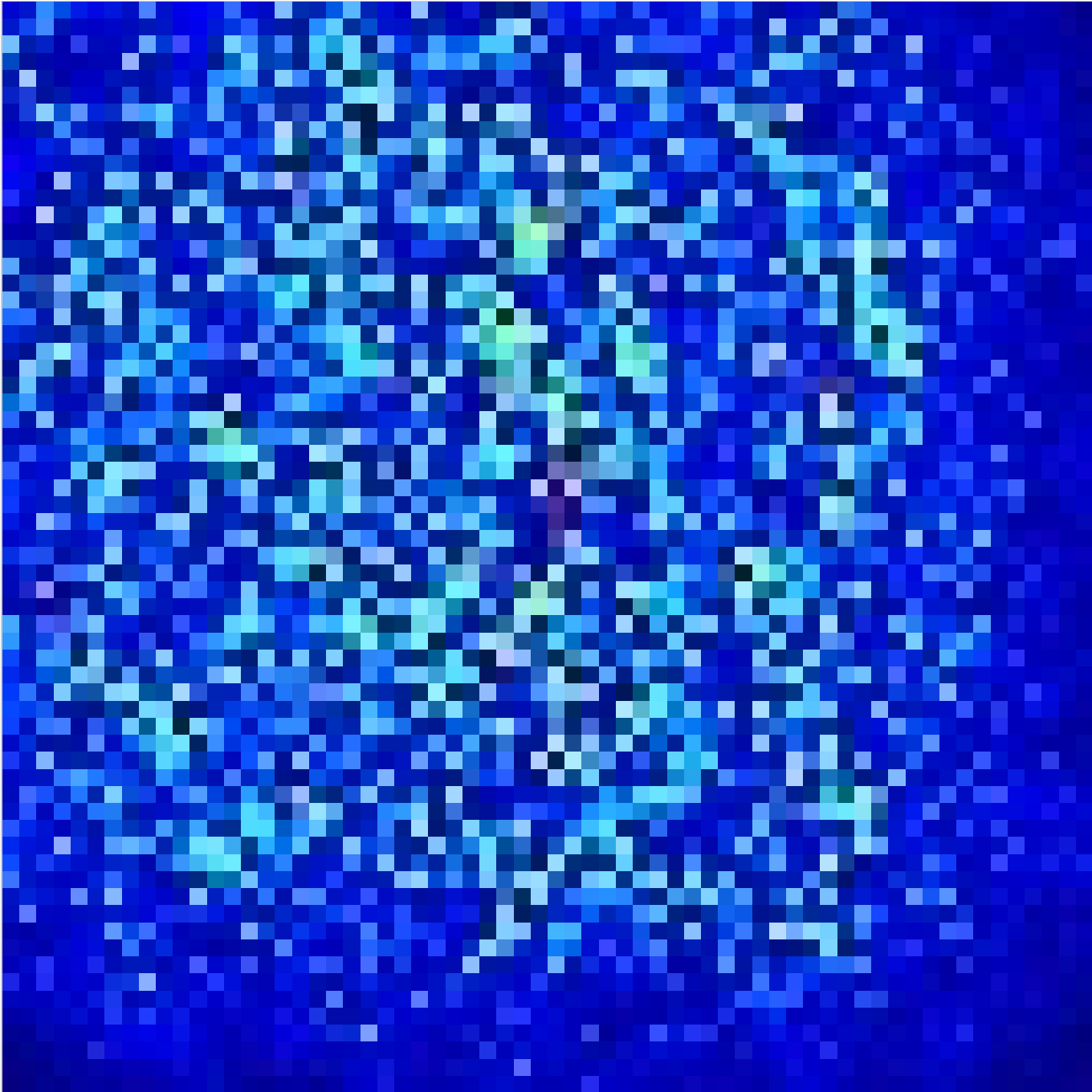
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Résumé du Diagnostic Récent

Modèle	Prédiction	Confiance	Info
3D ResNet50	Négatif	91.33%	Aucun nodule suspect détecté.





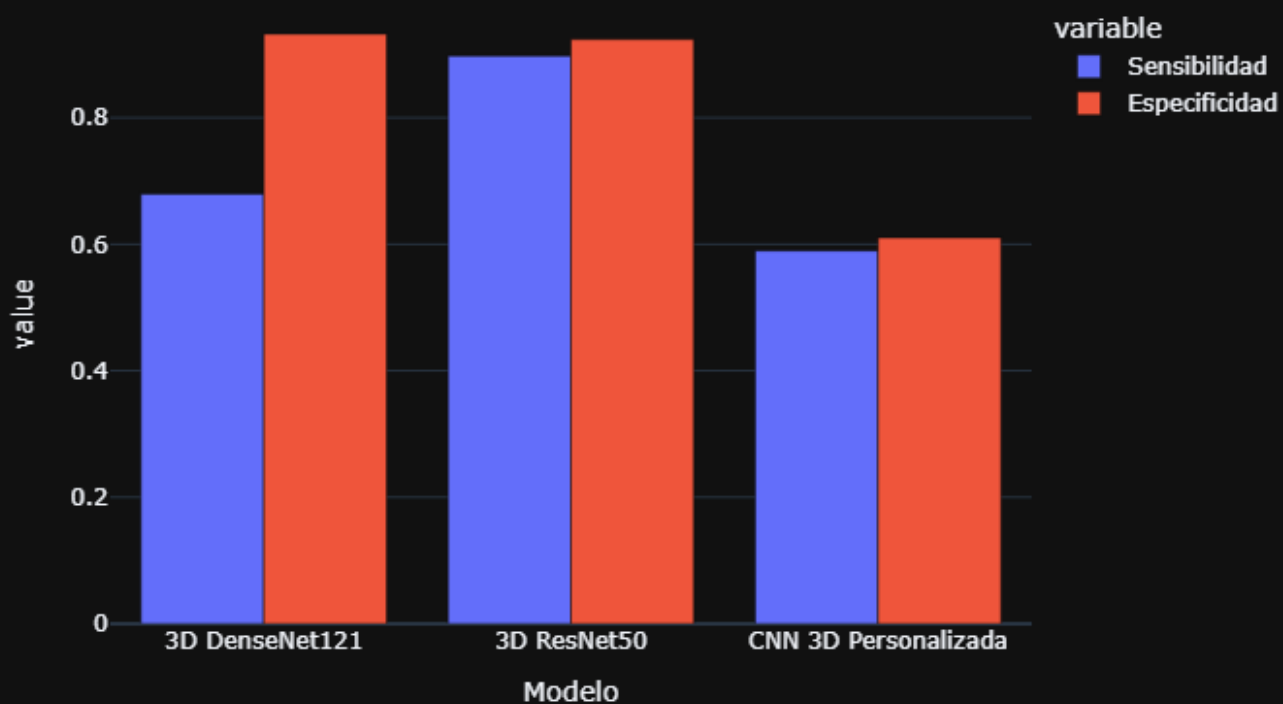


Métriques Globales

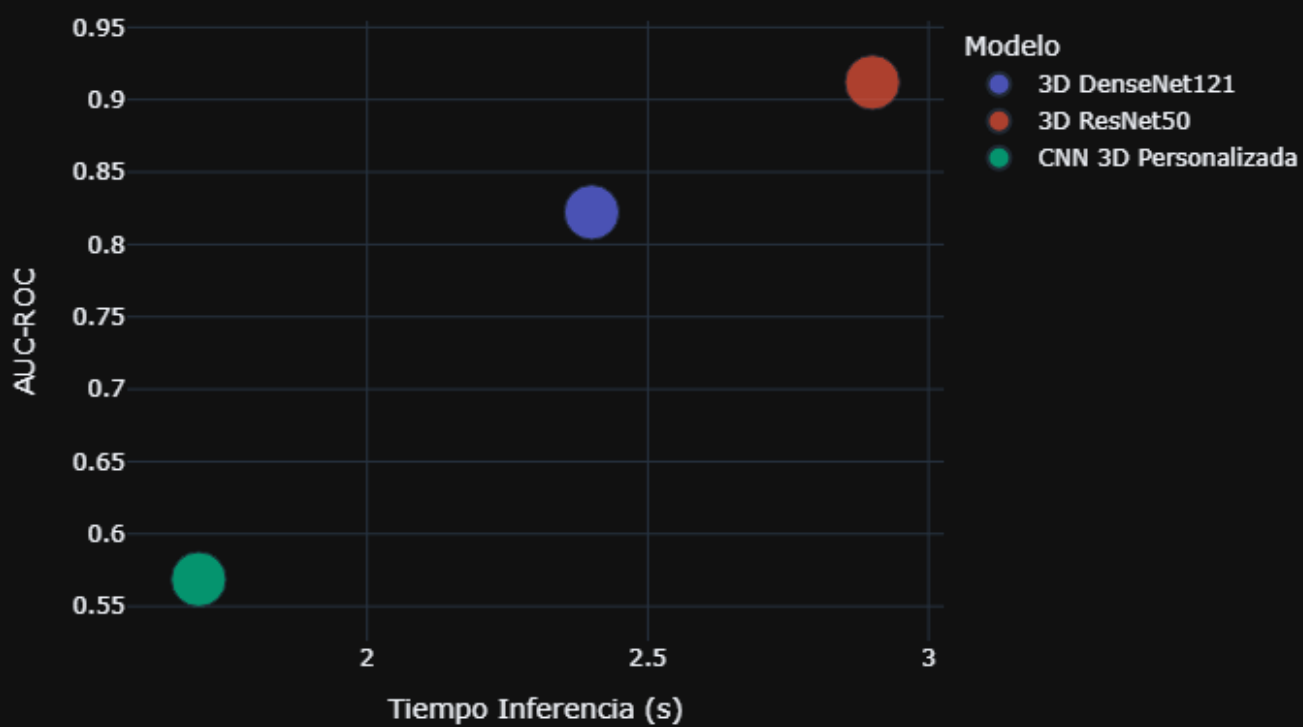
Modelo	Exactitud	Precision	Sensibilidad	Especificidad	F1	AUC-ROC	AP	Dice Score	MCC	Tiempo Inferencia (s)
3D DenseNet121	0.832	0.869	0.679	0.932	0.763	0.822	0.771	0.763	0.647	2.400
3D ResNet50	0.913	0.886	0.897	0.924	0.892	0.912	0.822	0.892	0.819	2.900
CNN 3D Personalizada	0.602	0.500	0.590	0.610	0.541	0.569	0.444	0.541	0.196	1.700

Graphiques Comparatifs

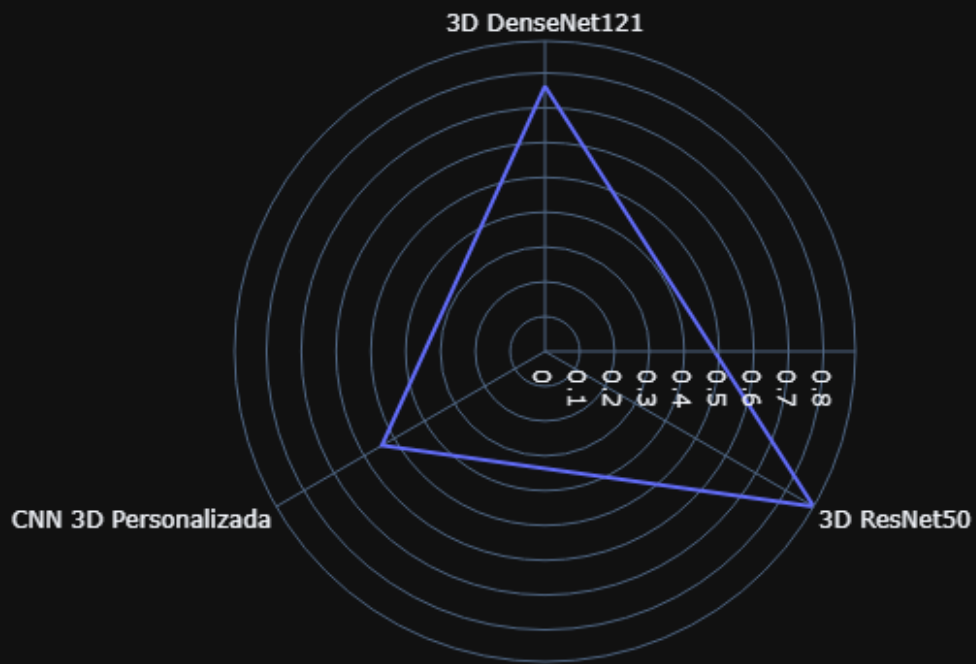
Sensibilité vs Spécificité



Performance vs Vitesse

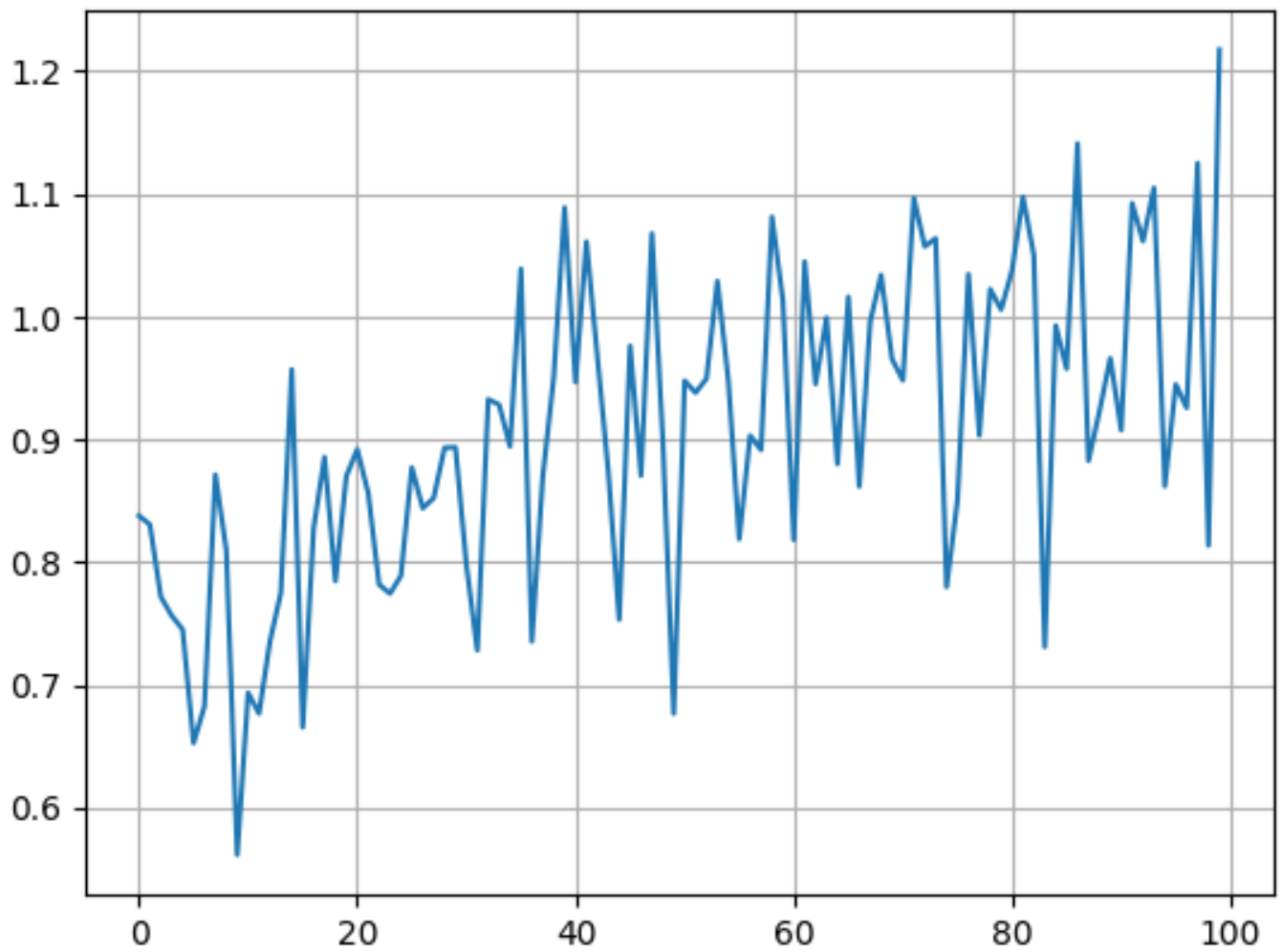


Dice Score par Modèle



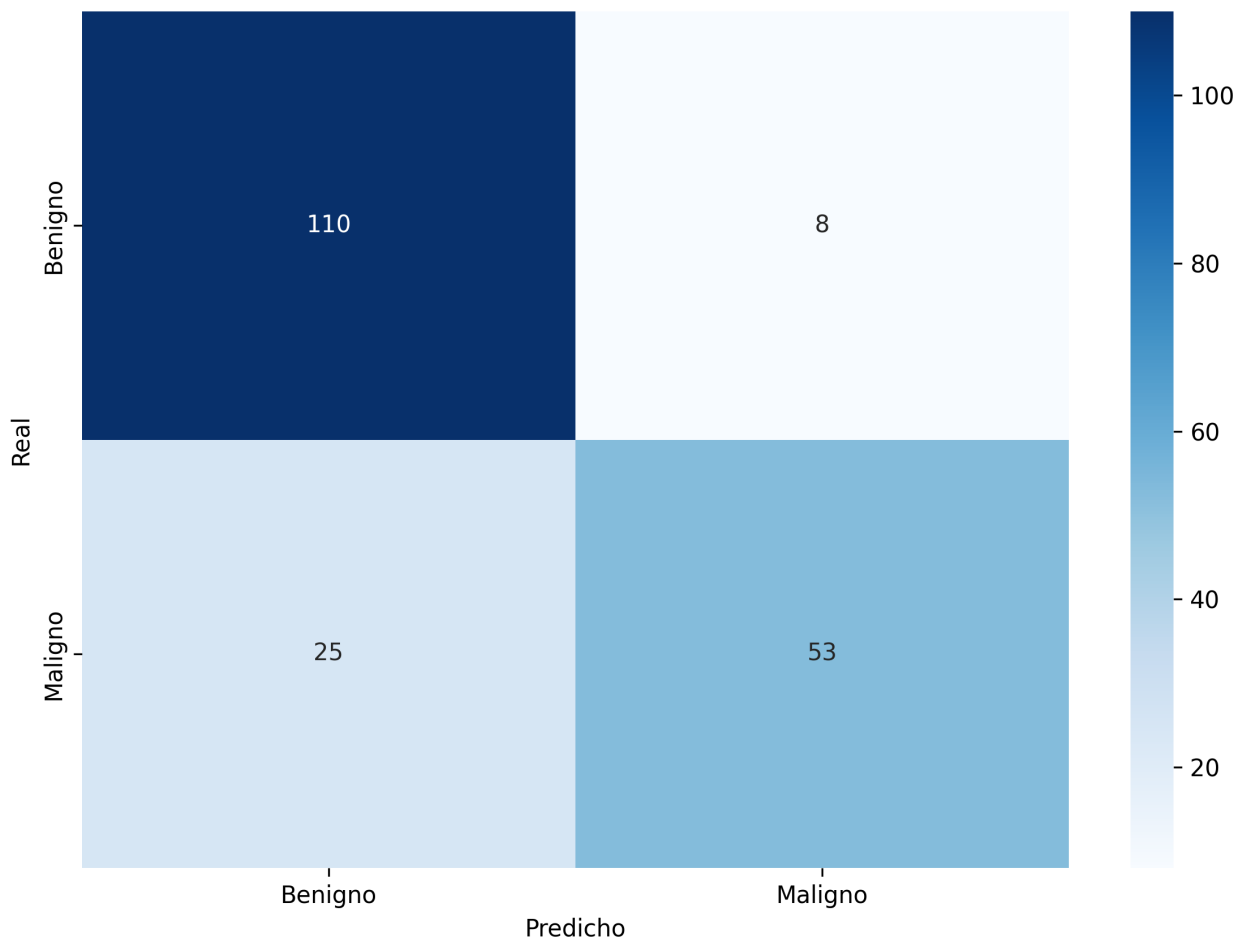
Courbe d'Optimisation des Hyper-paramètres

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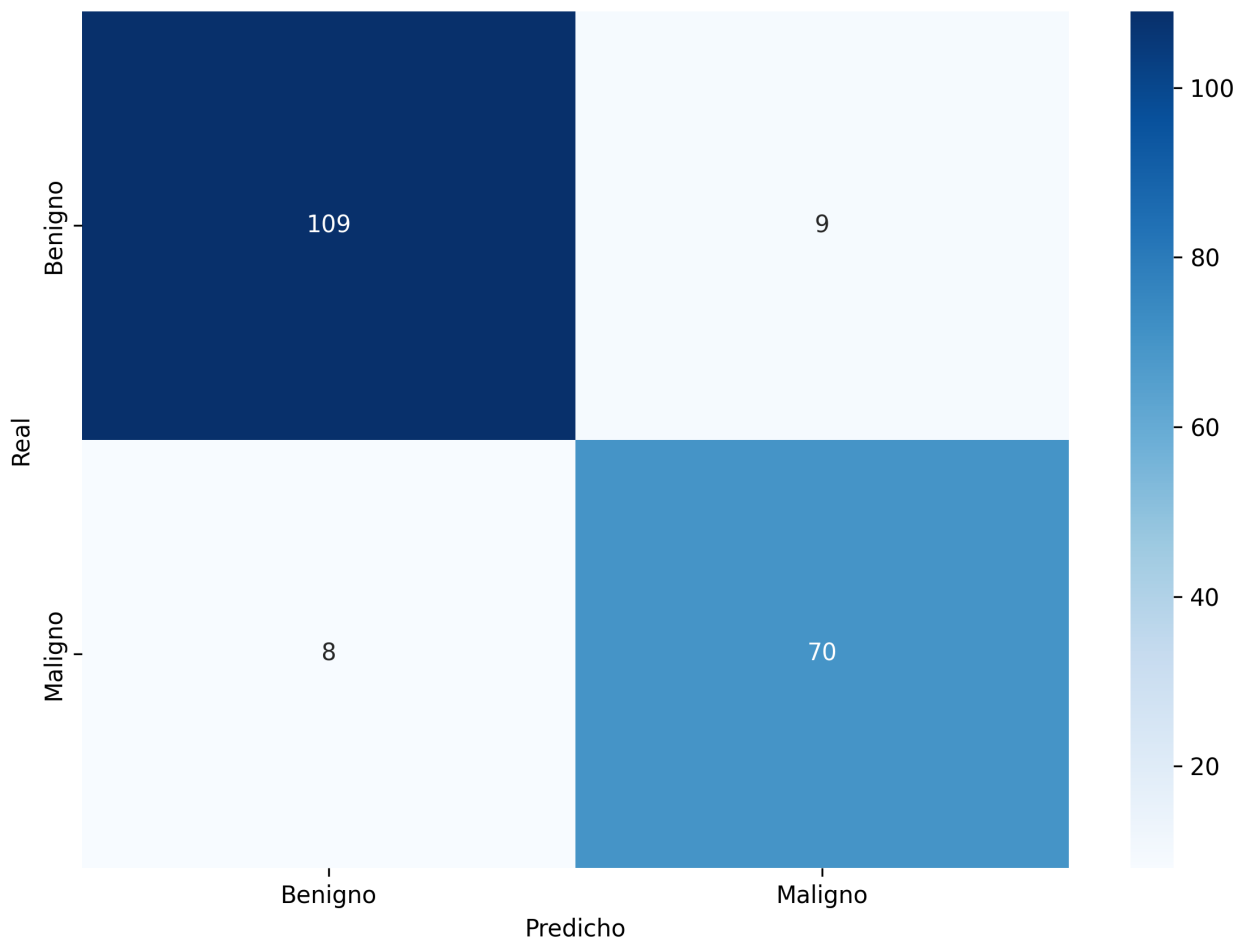


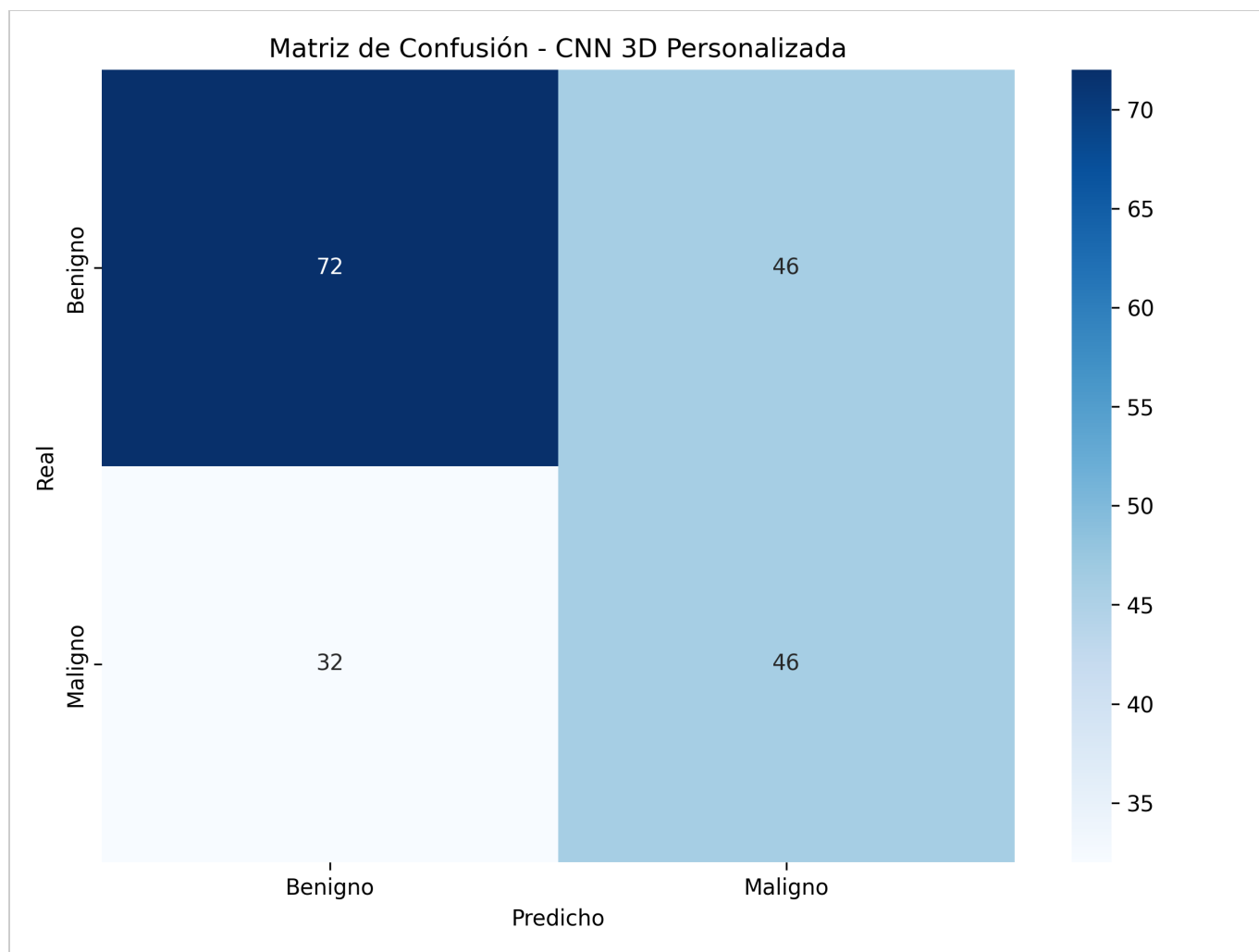
Matrices de Confusion

Matriz de Confusión - 3D DenseNet121



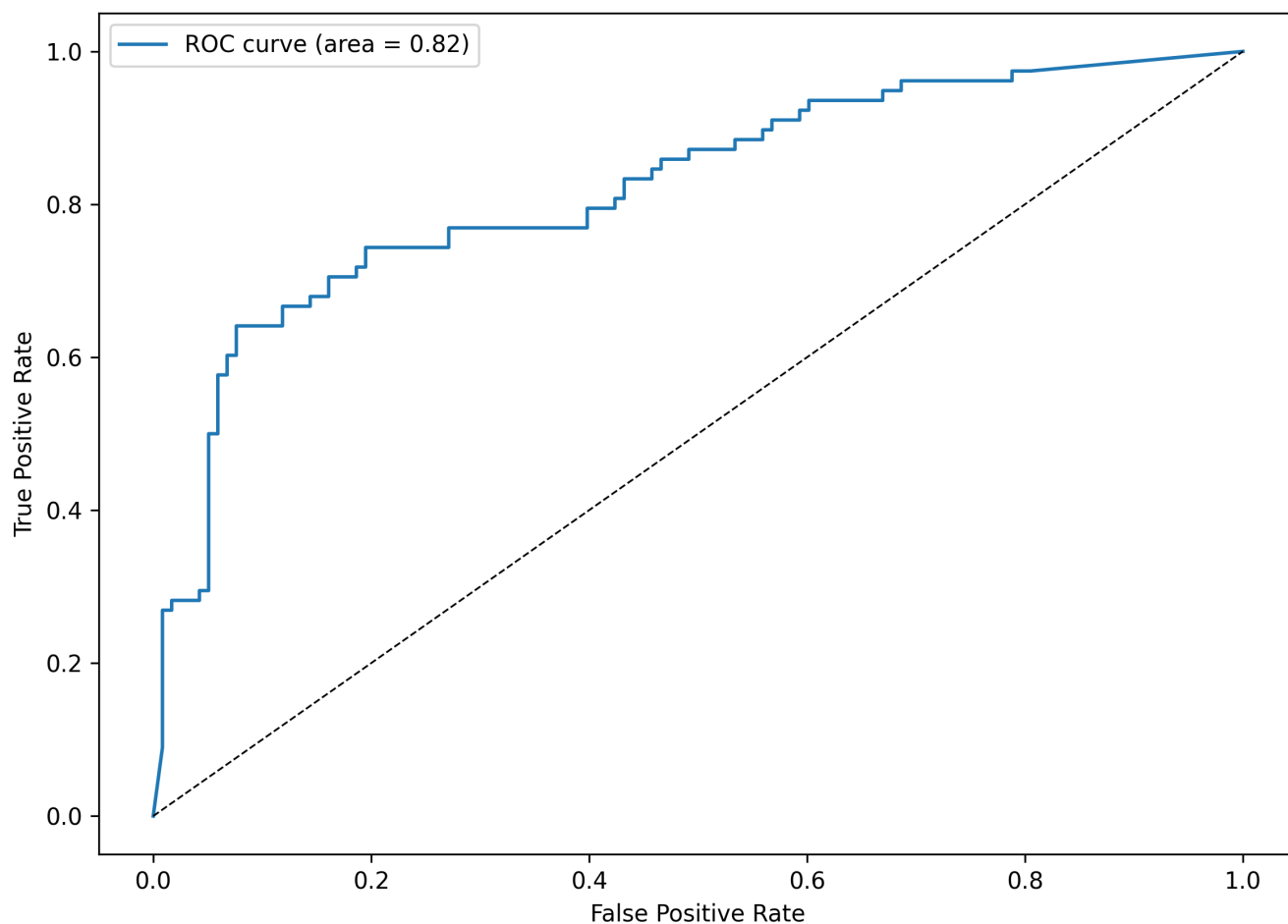
Matriz de Confusión - 3D ResNet50



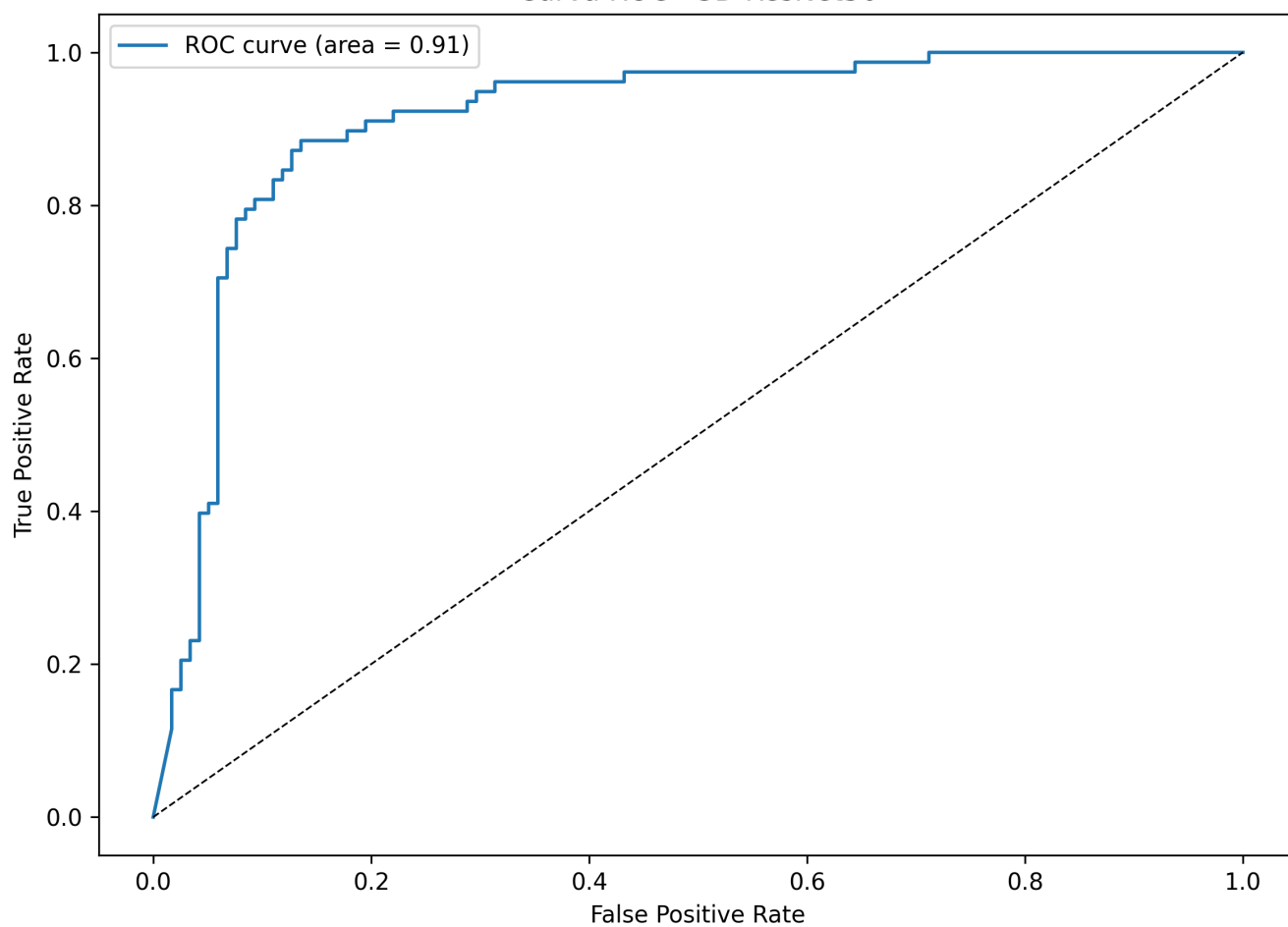


Courbes ROC / PR

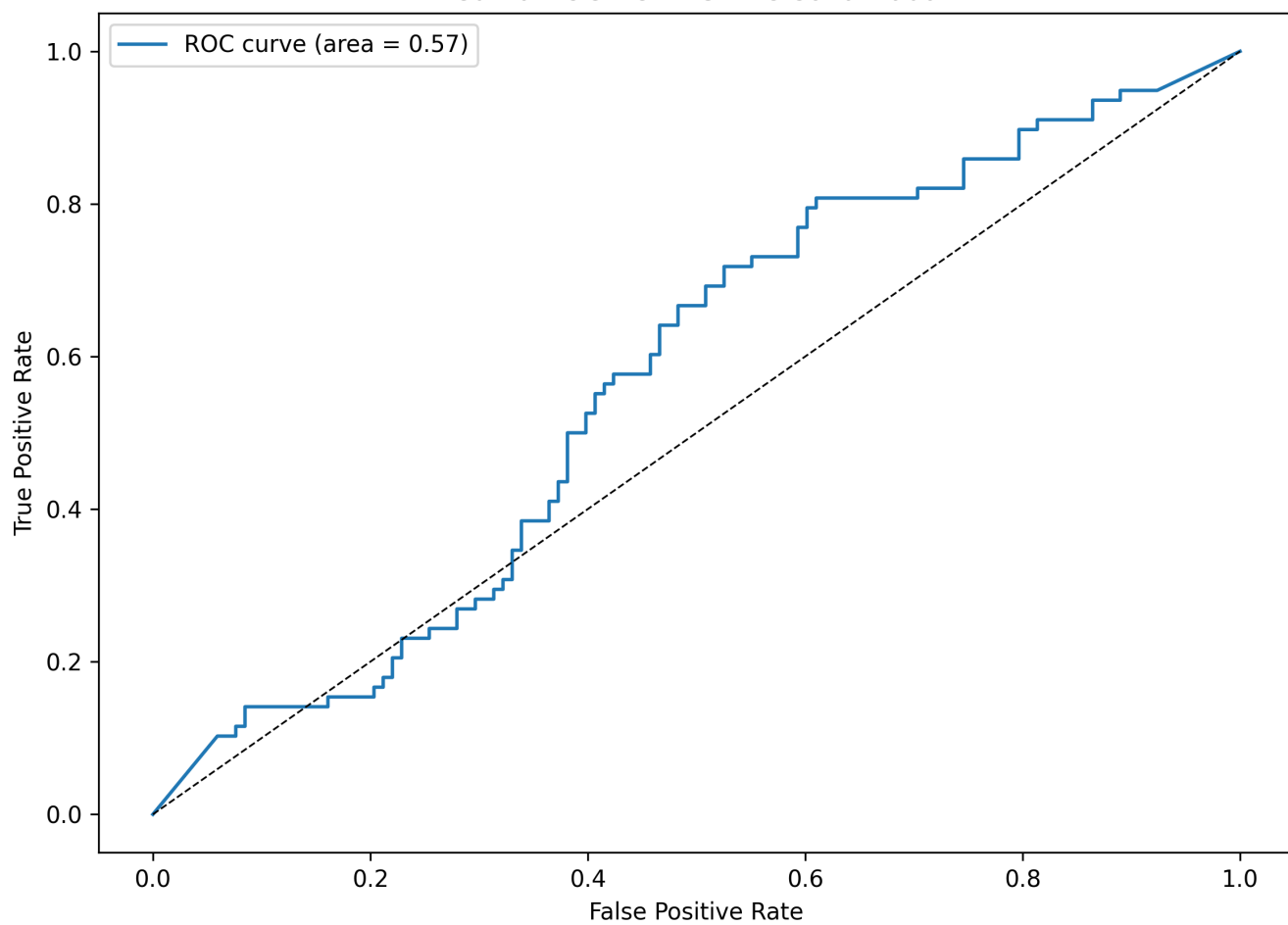
Curva ROC - 3D DenseNet121



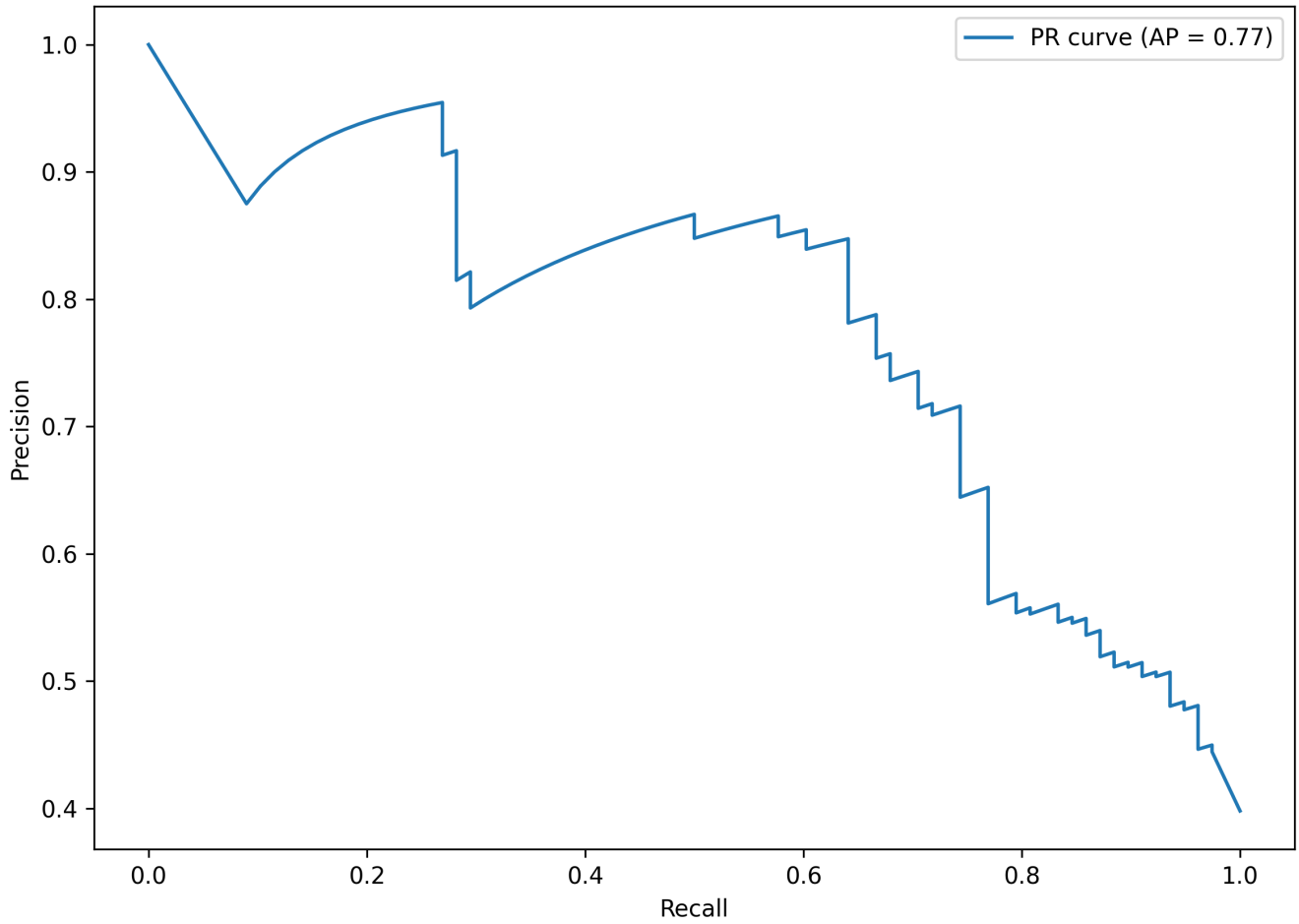
Curva ROC - 3D ResNet50



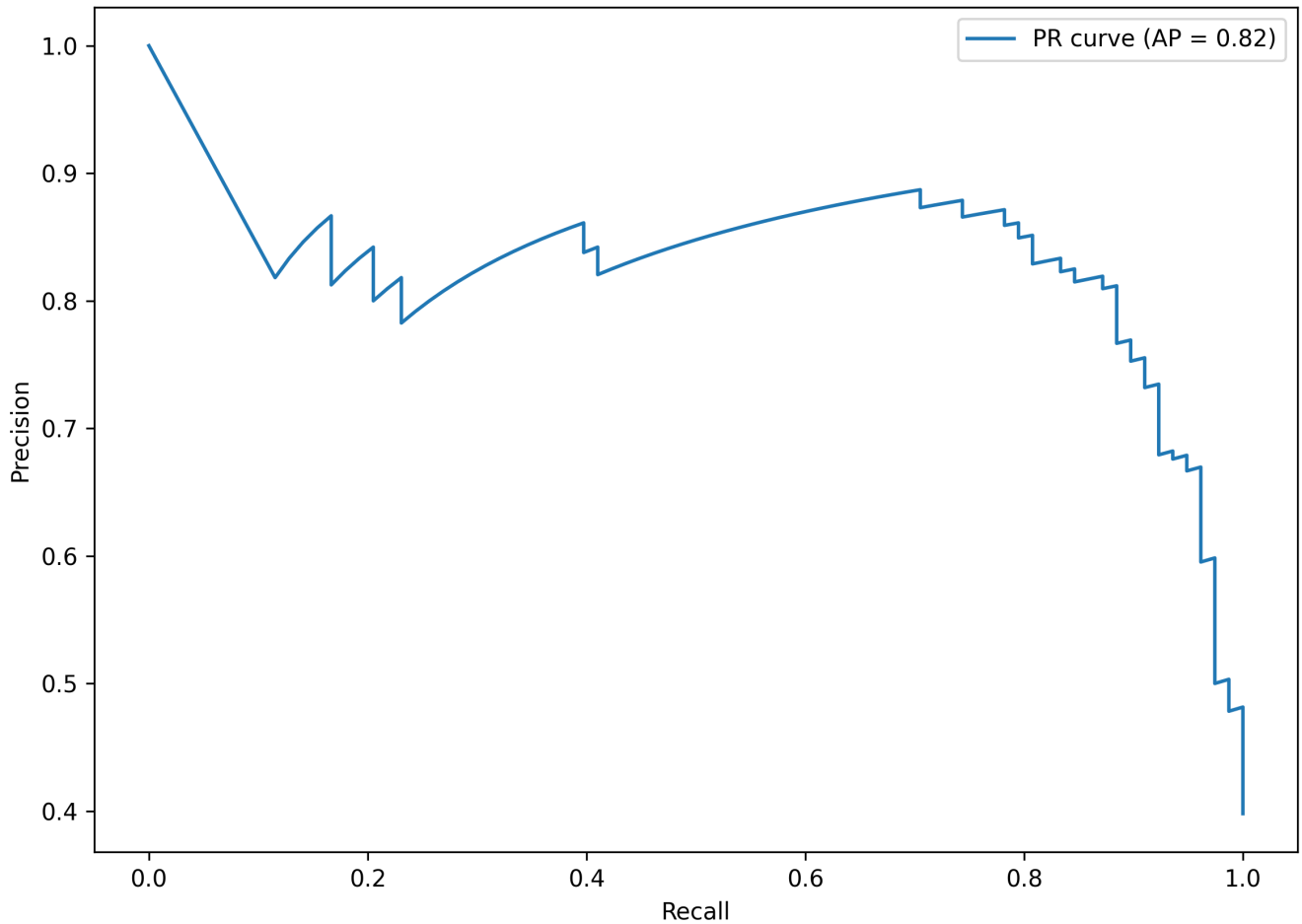
Curva ROC - CNN 3D Personalizada

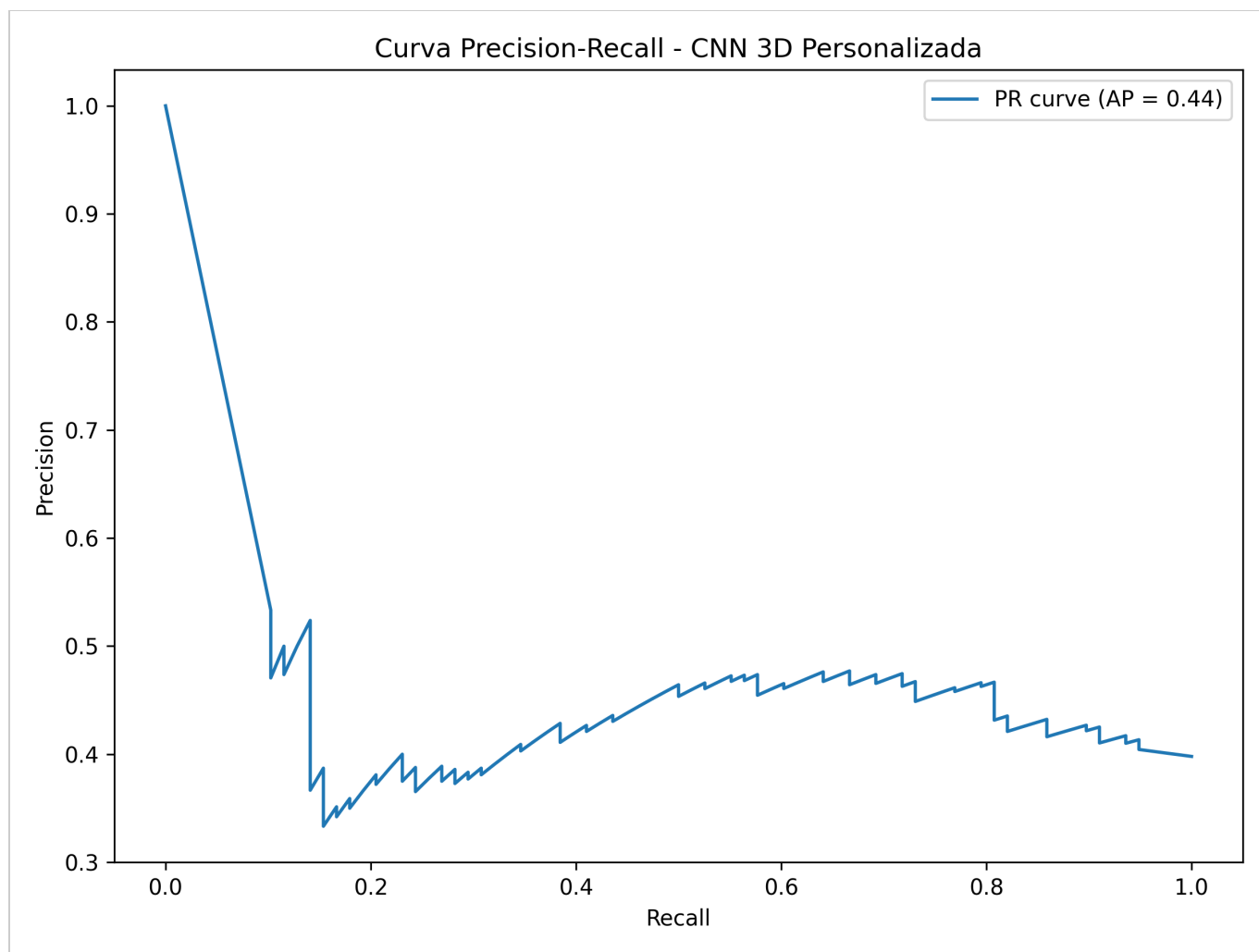


Curva Precision-Recall - 3D DenseNet121



Curva Precision-Recall - 3D ResNet50





Tests de McNemar

McNemar: 3D DENSENET121 vs 3D RESNET50
 $\chi^2 = 12.50$, $p = 0.000$

	3D RESNET50 acierto	3D RESNET50 error
3D DENSENET121 acierto	0	1
3D DENSENET121 error	17	0

McNemar: 3D DENSENET121 vs CNN 3D PERSONALIZADO
 $\chi^2 = 43.02$, $p = 0.000$

	CNN 3D PERSONALIZADO acierto	CNN 3D PERSONALIZADO error
3D DENSENET121 acierto	0	45
3D DENSENET121 error	0	0

McNemar: 3D RESNET50 vs CNN 3D PERSONALIZADO
 $\chi^2 = 59.02$, $p = 0.000$

	CNN 3D PERSONALIZADO acierto	CNN 3D PERSONALIZADO error
3D RESNET50 acierto	0	61
3D RESNET50 error	0	0