# 3D-Model Validation Report – Lung Cancer

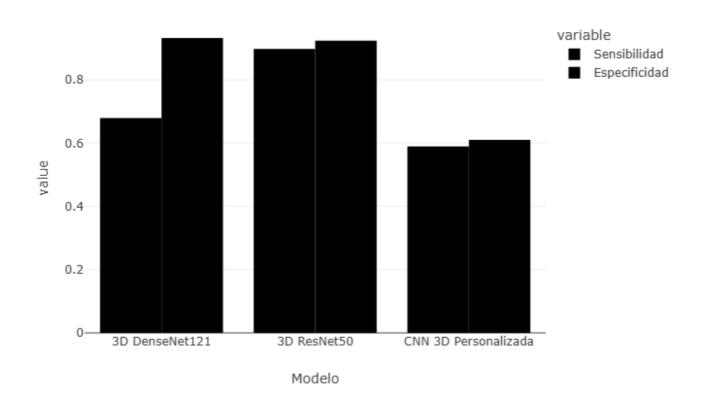
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#### **Global Metrics**

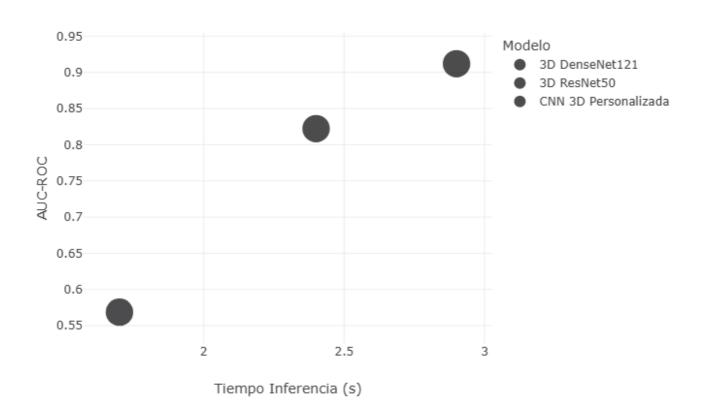
Modelo	Exactitud	Precision	Sensibilidad	Especificidad	F1	AUC- ROC	AP	Dice Score	MCC	Tiempo Inferencia (s)
3D DenseNet121	0.832	0.869	0.679	0.932	0.763	0.822	0.771	0.763	0.647	2.400
3D ResNet50	0.913	0.886	0.897	0.924	0.892	0.912	0.822	0.892	0.819	2.900
CNN 3D Personalizada	0.602	0.500	0.590	0.610	0.541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

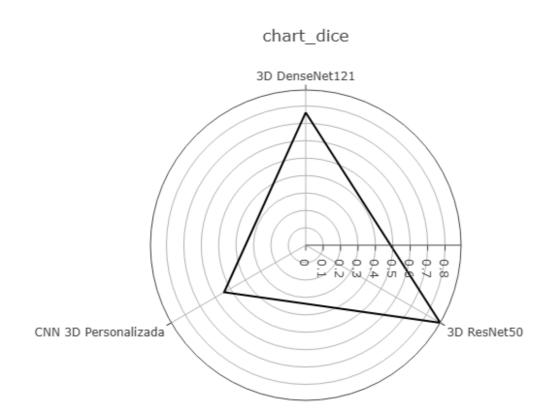
## **Comparison Charts**

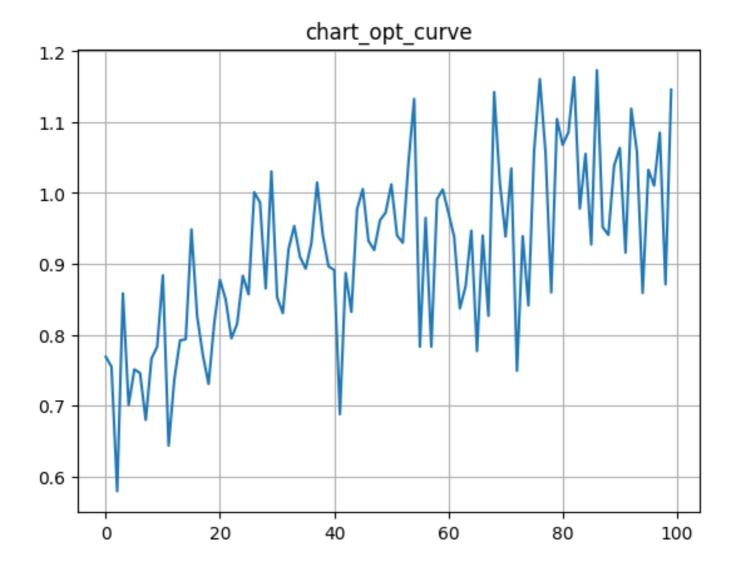
chart\_sens\_spec



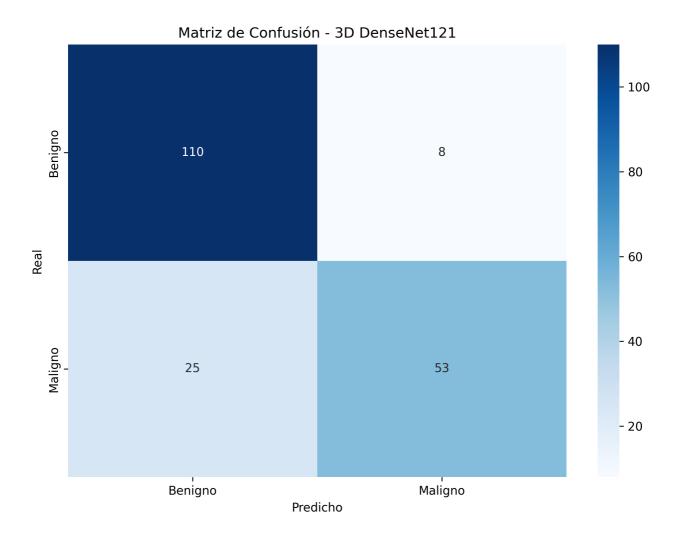
#### chart\_perf\_speed

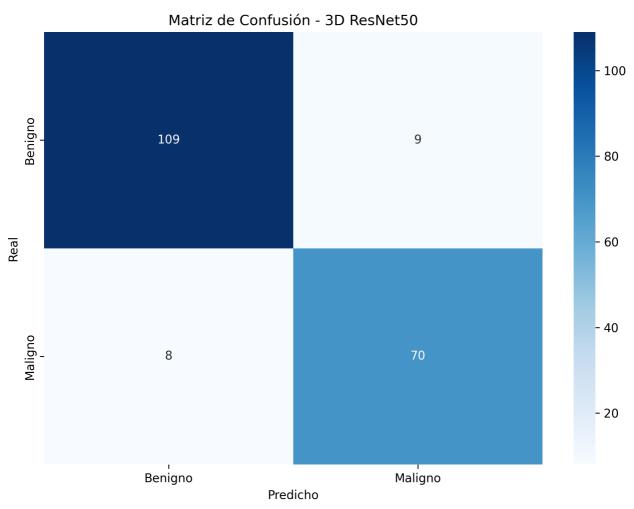


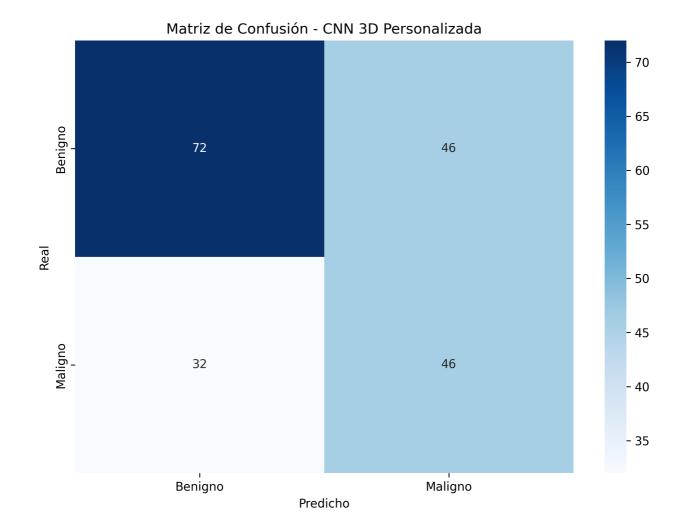




**Confusion Matrices** 

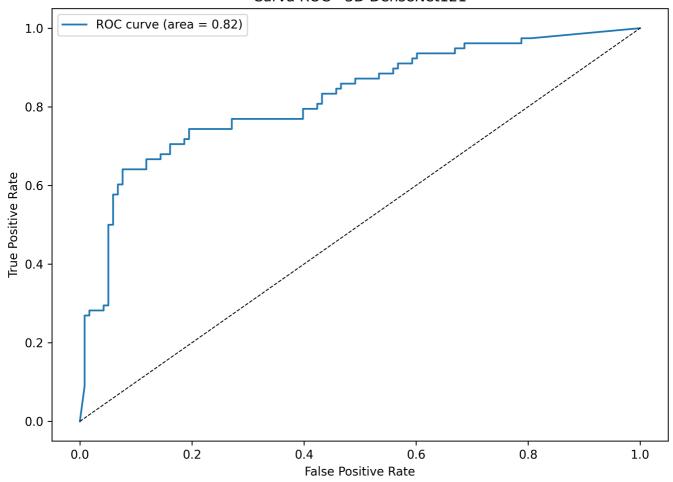


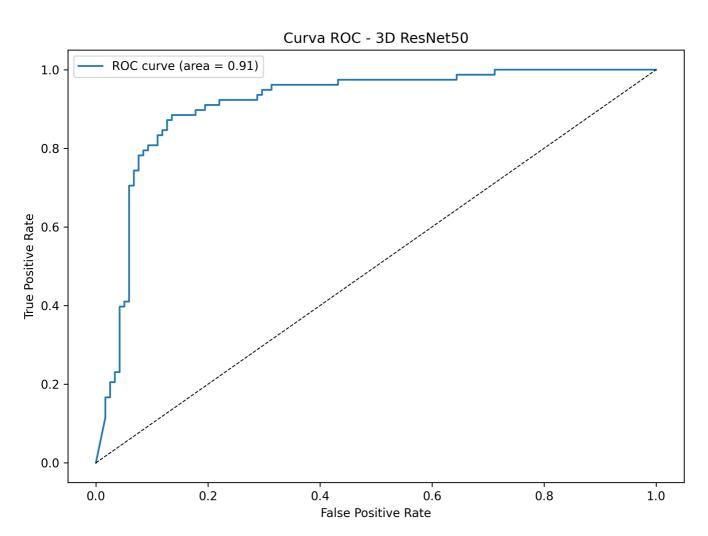




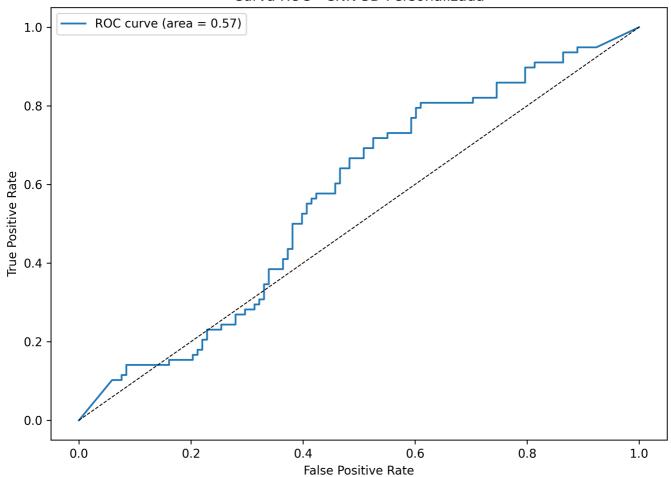
**ROC / PR Curves** 

#### Curva ROC - 3D DenseNet121









### **McNemar Tests**

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