



Retina VesselNet

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29 de mayo de 2022

Introduction

Introduction

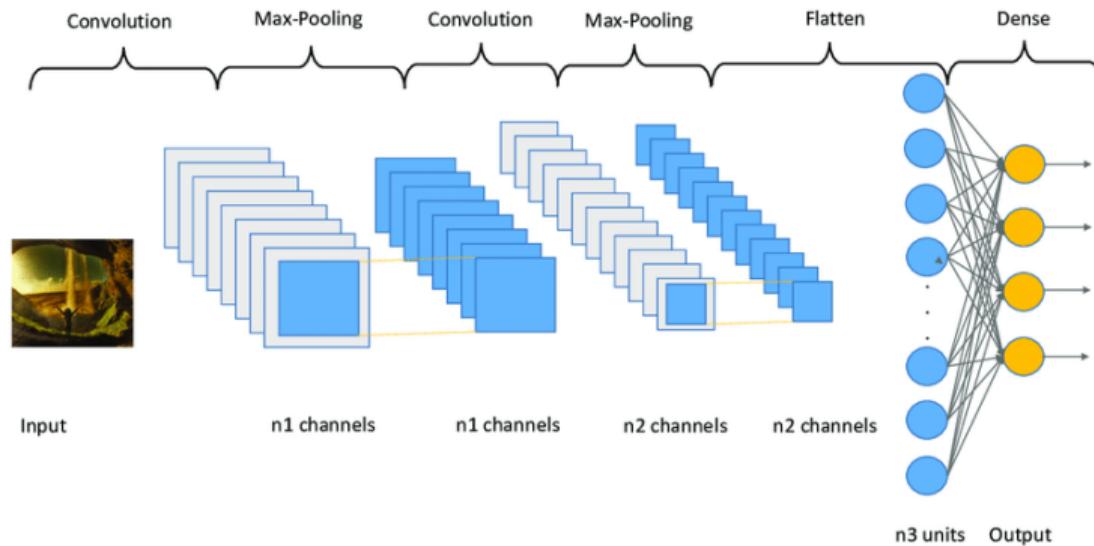


Figura 1: Convolutional neural networks.¹

Introduction

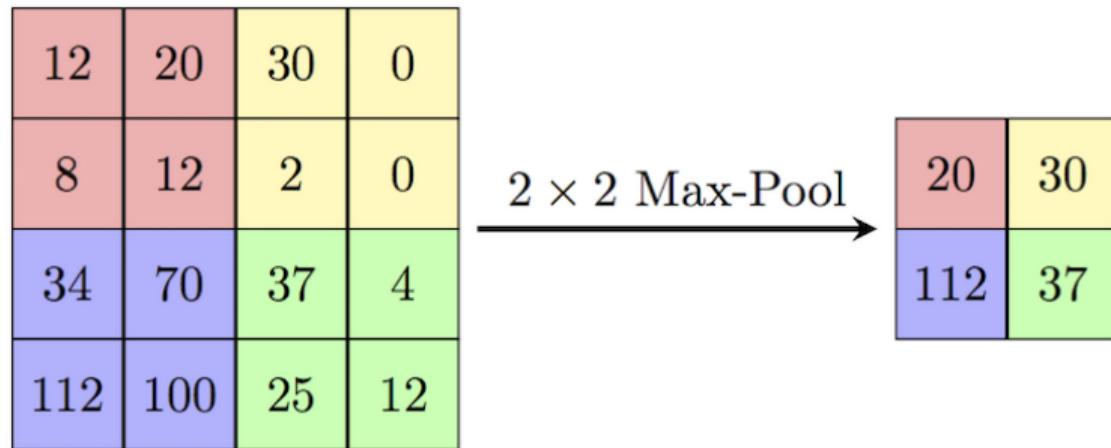


Figura 2: Max pooling layer.

Introduction

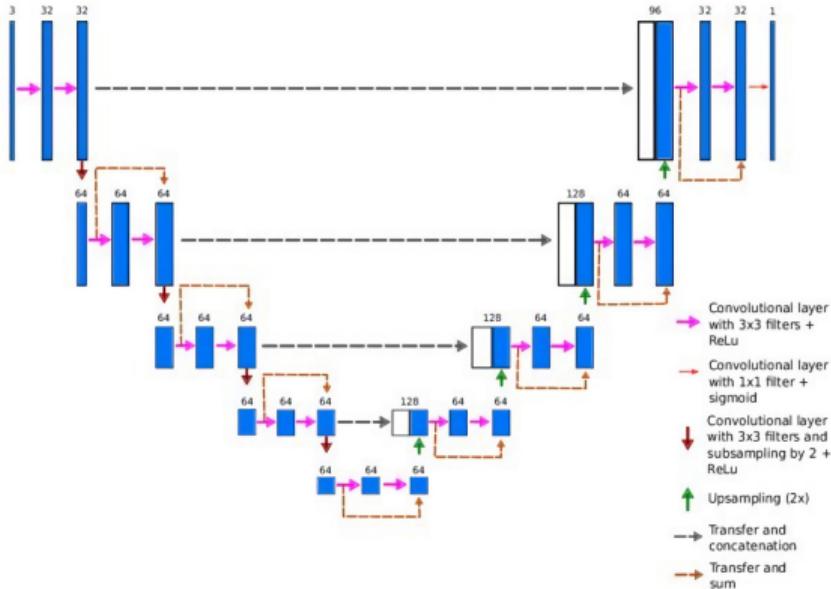
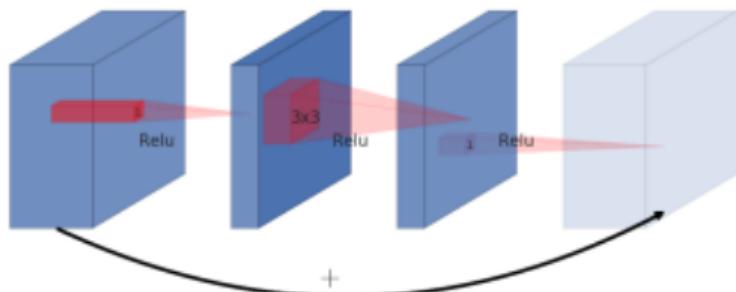


Figura 3: UNET model.²

Methods

Methods

(a) Residual block



(b) Inverted residual block

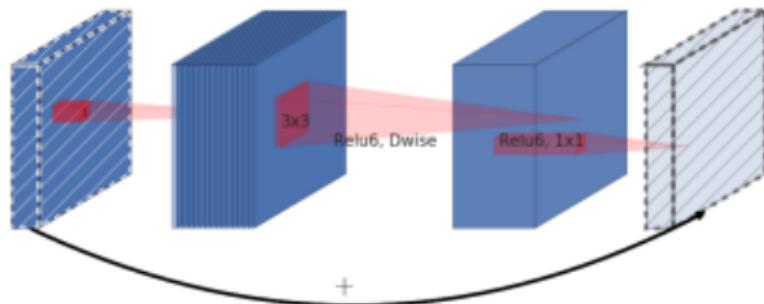


Figura 4: MobileNet v2.

Methods

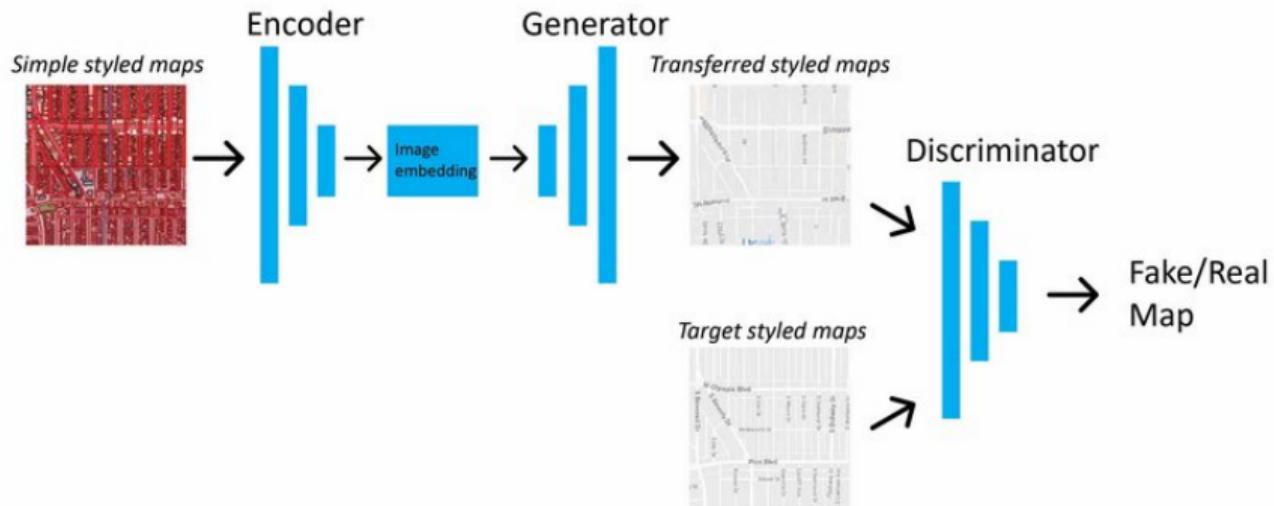


Figura 5: pix2pix model.

Methods

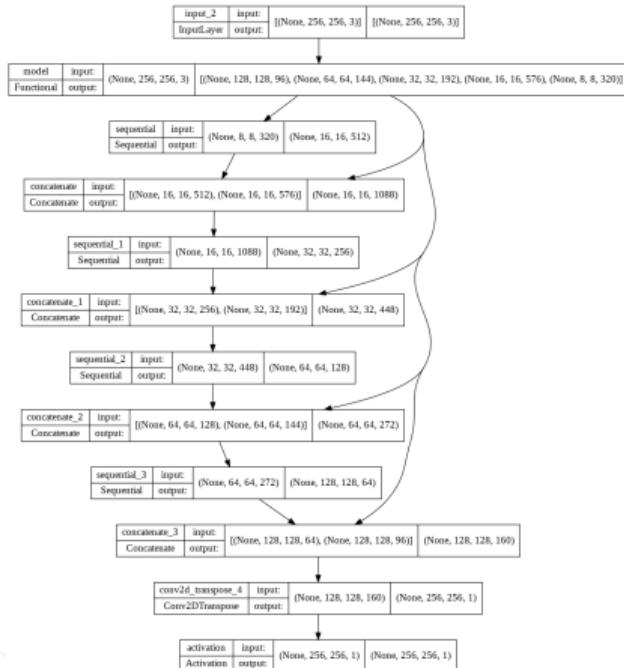
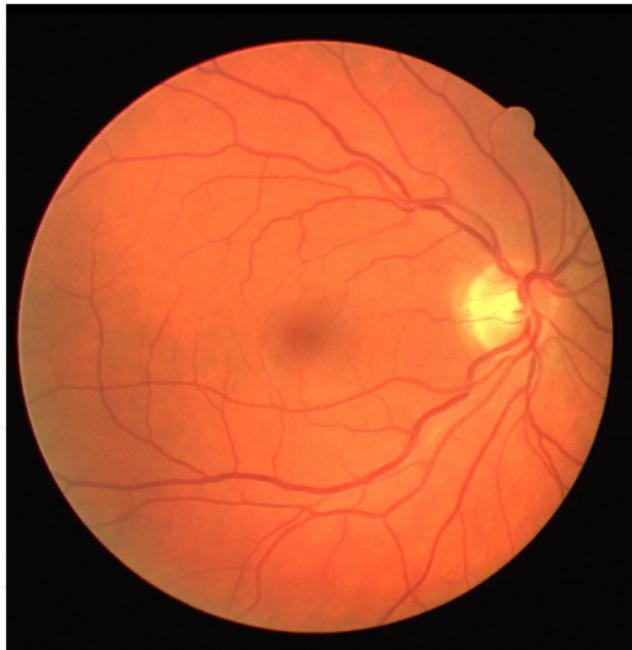


Figura 6: Model with MobileNetv2 and pix2pix.

Methods



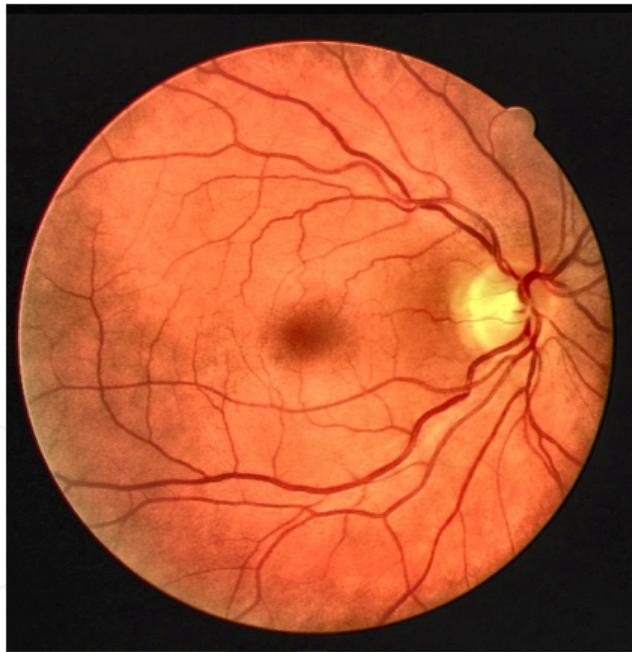
(a) Original image



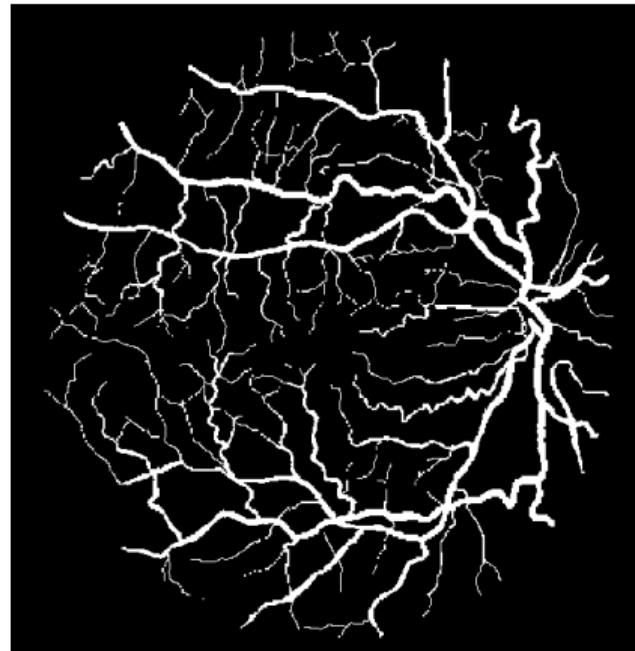
(b) High contrast image

Figura 7: Train images.

Methods



(a) High contrast image



(b) Capillary vessels

Figura 8: Input and output model.

Results

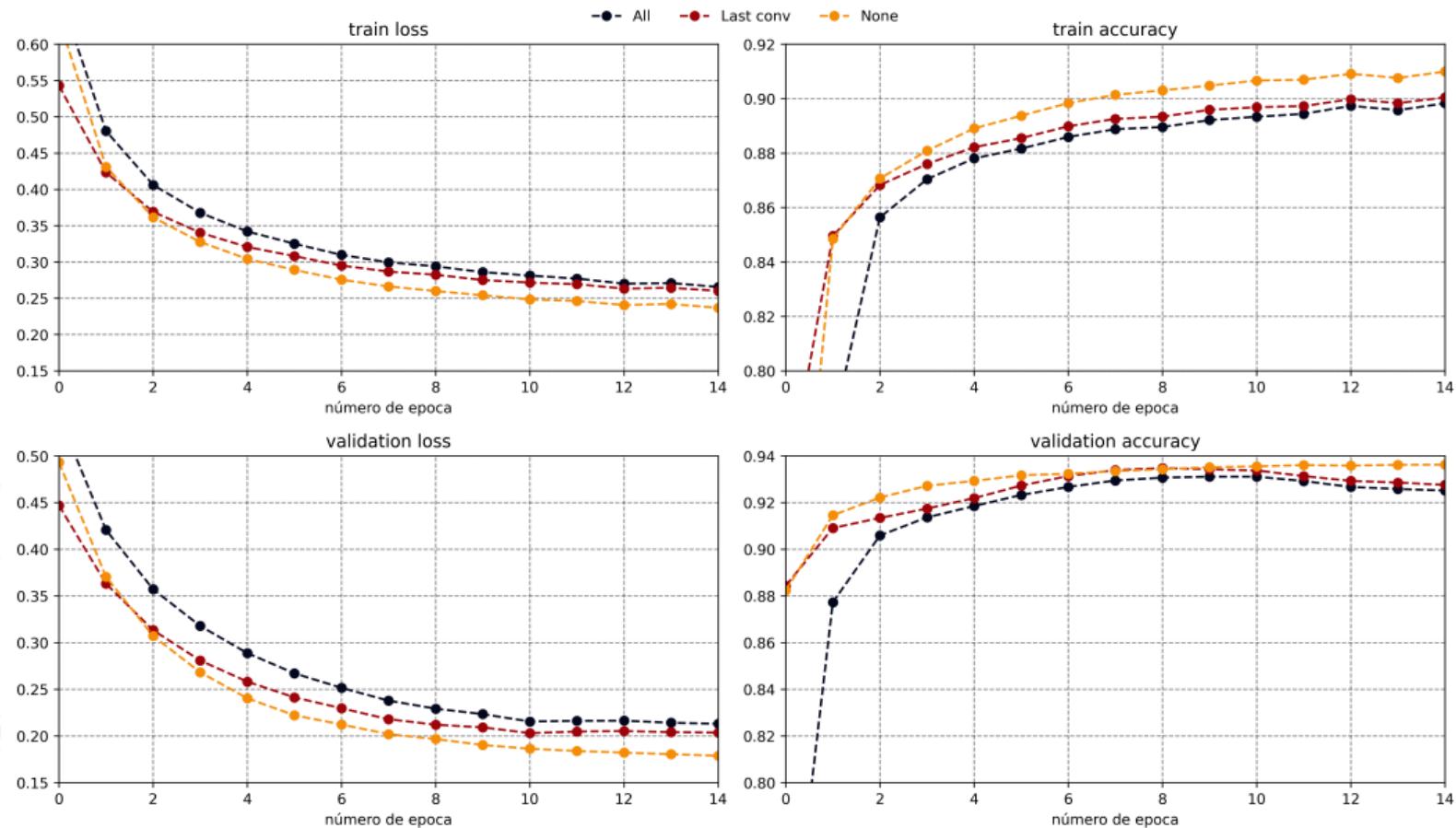


Figura 9: History from original images as input model.

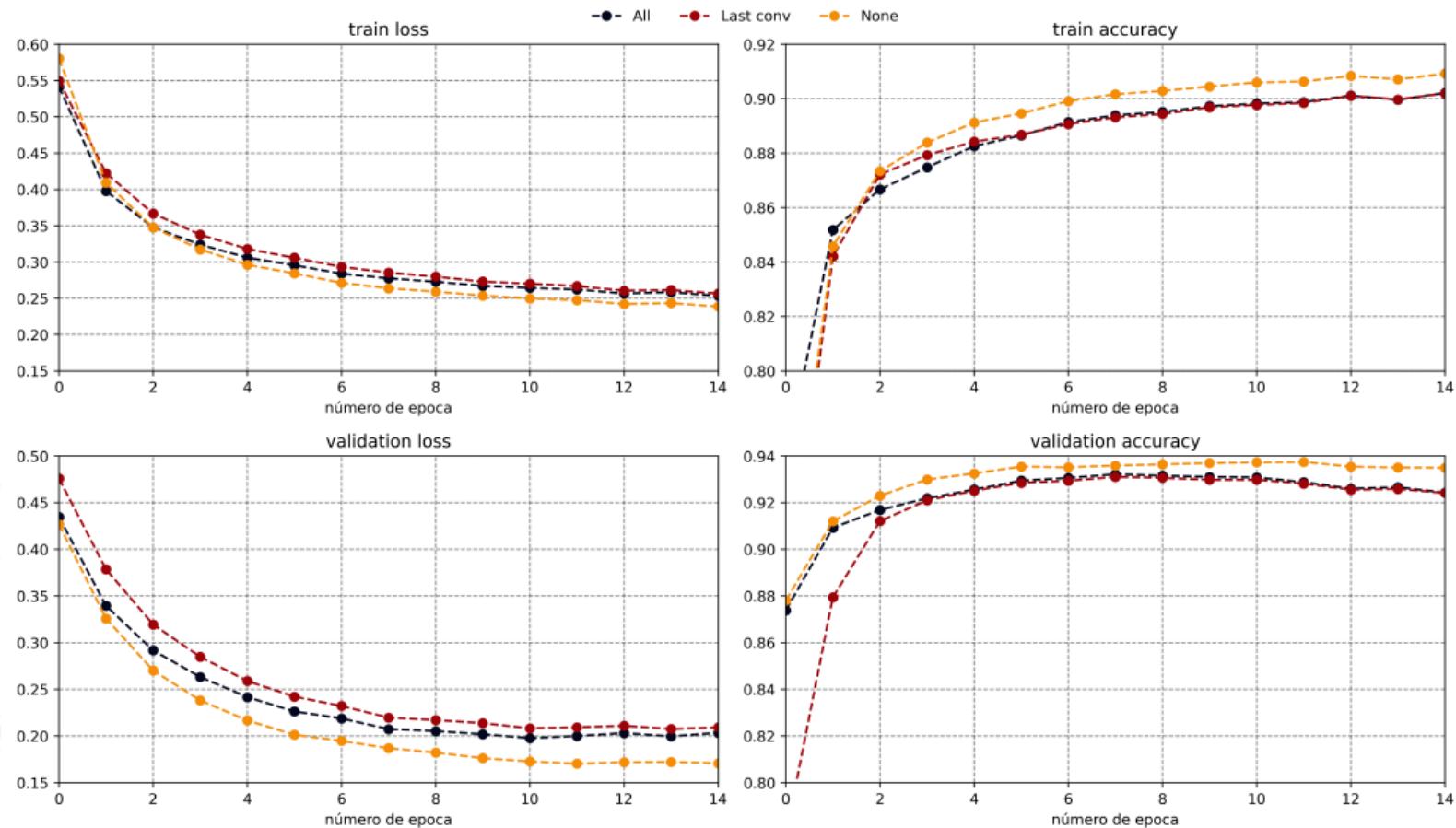


Figura 10: History from high contrast images as input model.

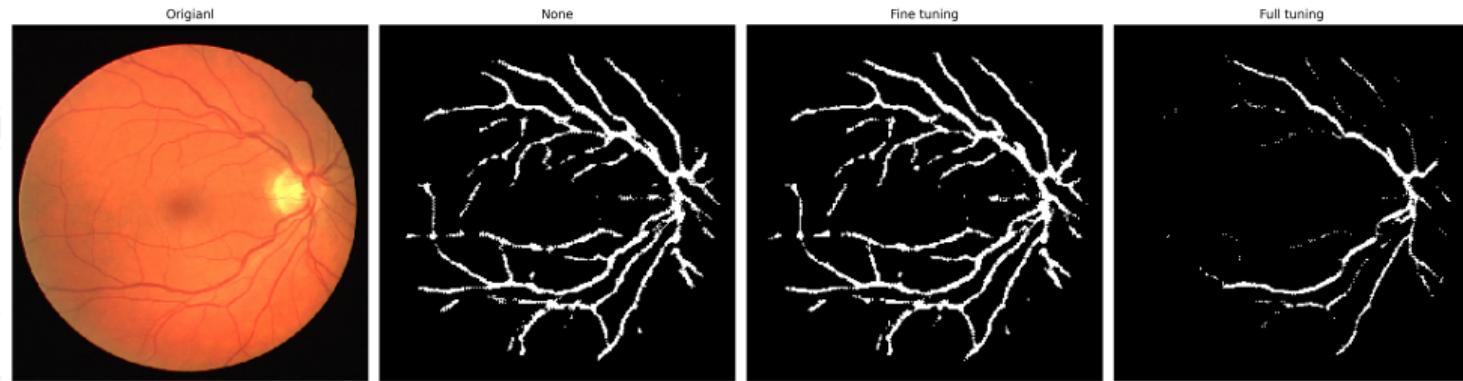
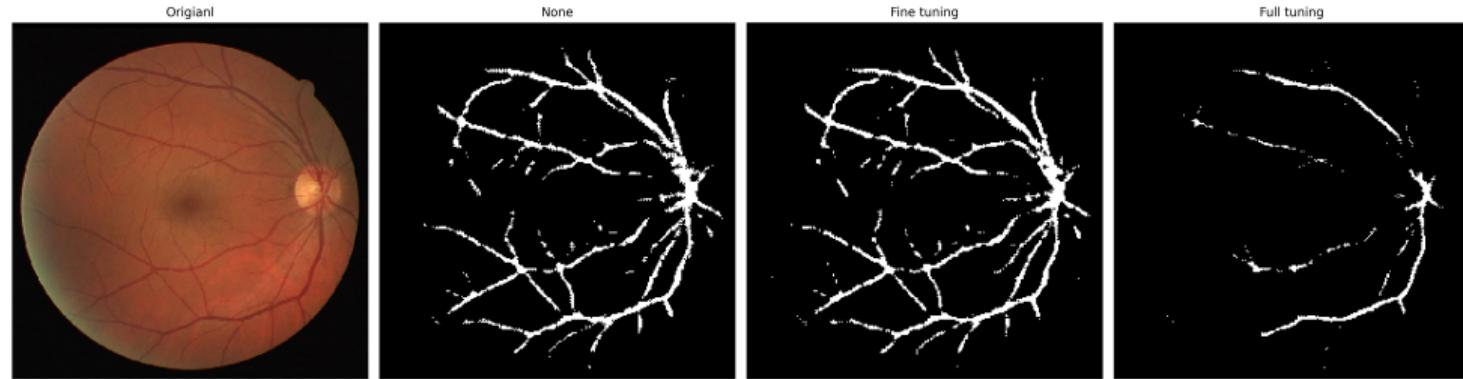


Figura 11: Results from original images as input model.

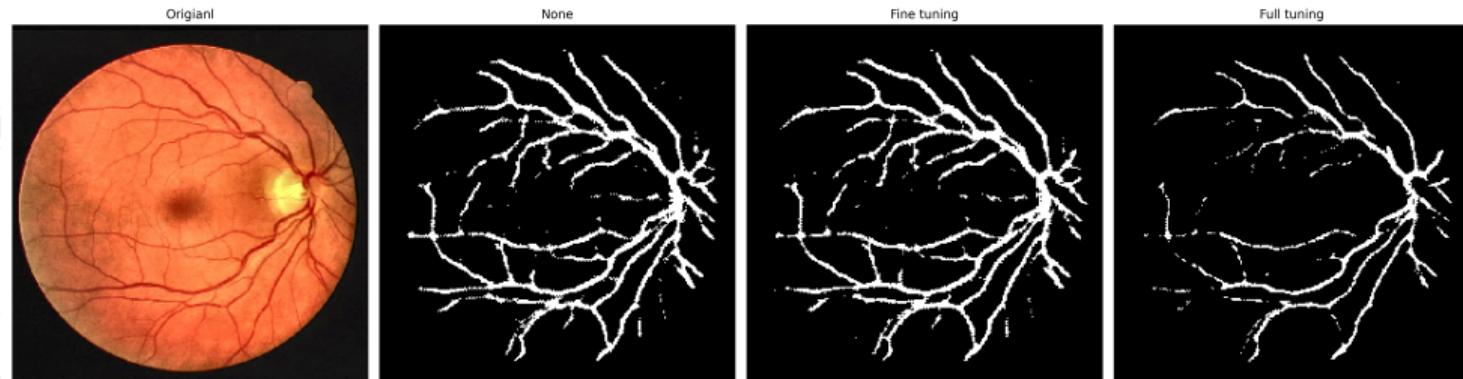
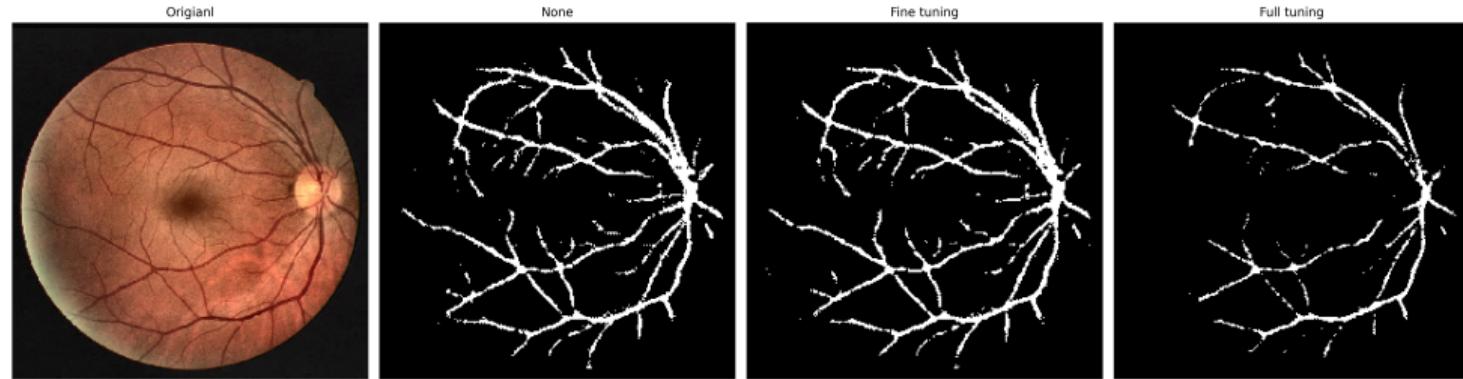


Figura 12: Results from high contrast images as input model.

Conclusions



[https://github.com/giovannilopez9808/
Reconocimiento_de_patrones_proyecto_
02/](https://github.com/giovannilopez9808/Reconocimiento_de_patrones_proyecto_02/)

References I

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