



Deep Learning

Redes Neuronales con TensorFlow

Septiembre 21 – Septiembre 23

Transfer Learning

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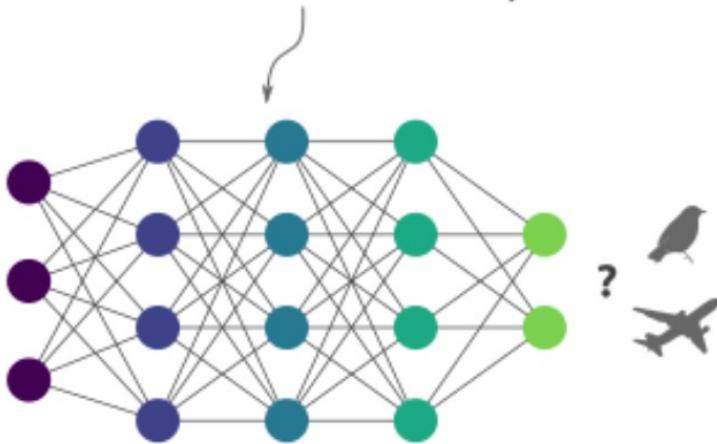
Transfer Learning

- Kernels
- Convolucionales
- Hiperparámetros
- Image Augmentation

Transfer Learning

Model training with a big head start

The original, "pre-trained"
network, trained for binary
classification of birds vs planes



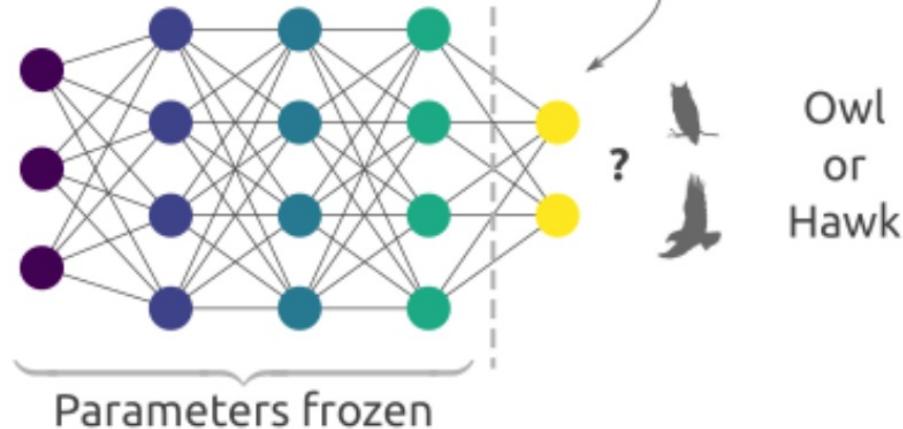
Transfer learning allows you to reuse a network trained for a new, similar task only needing a small data set to train on.

Feature transfer uses the body or the network as is with a new final layer.

Fine tuning updates the entire network.

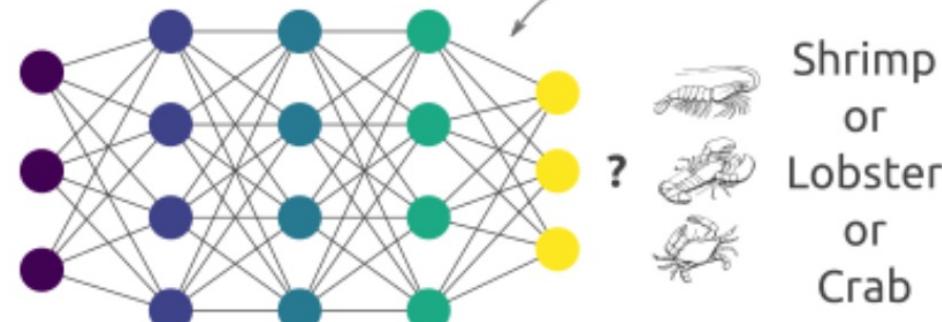
Only train the new final layer (on a small data set)

Feature transfer

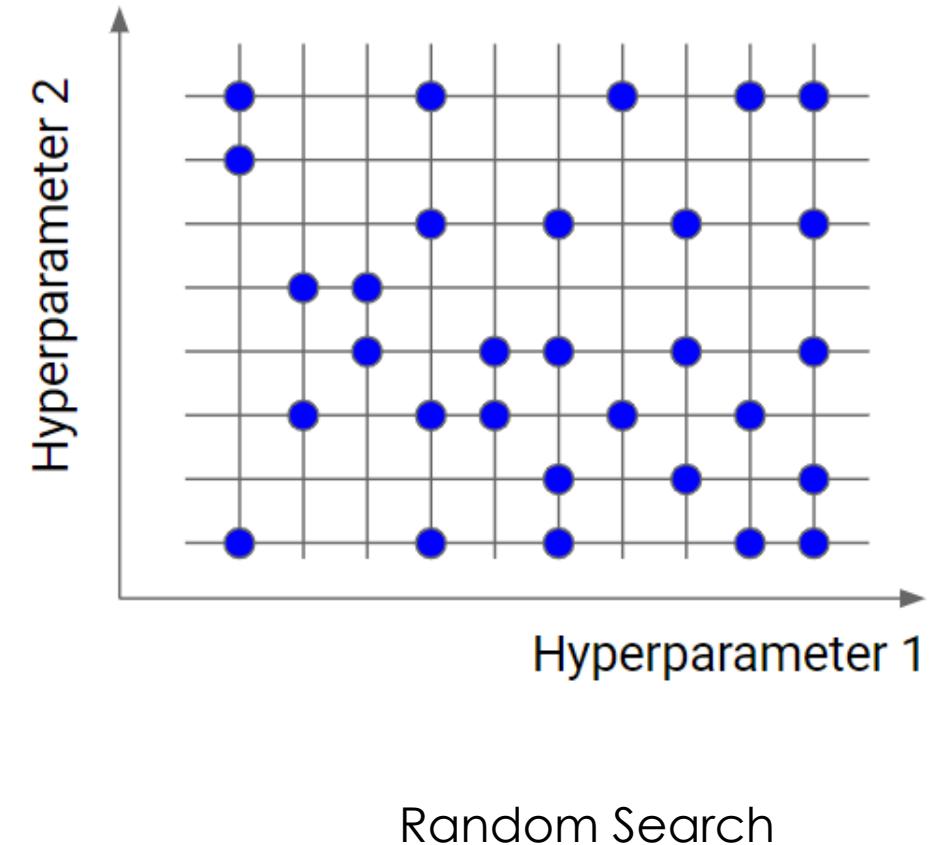
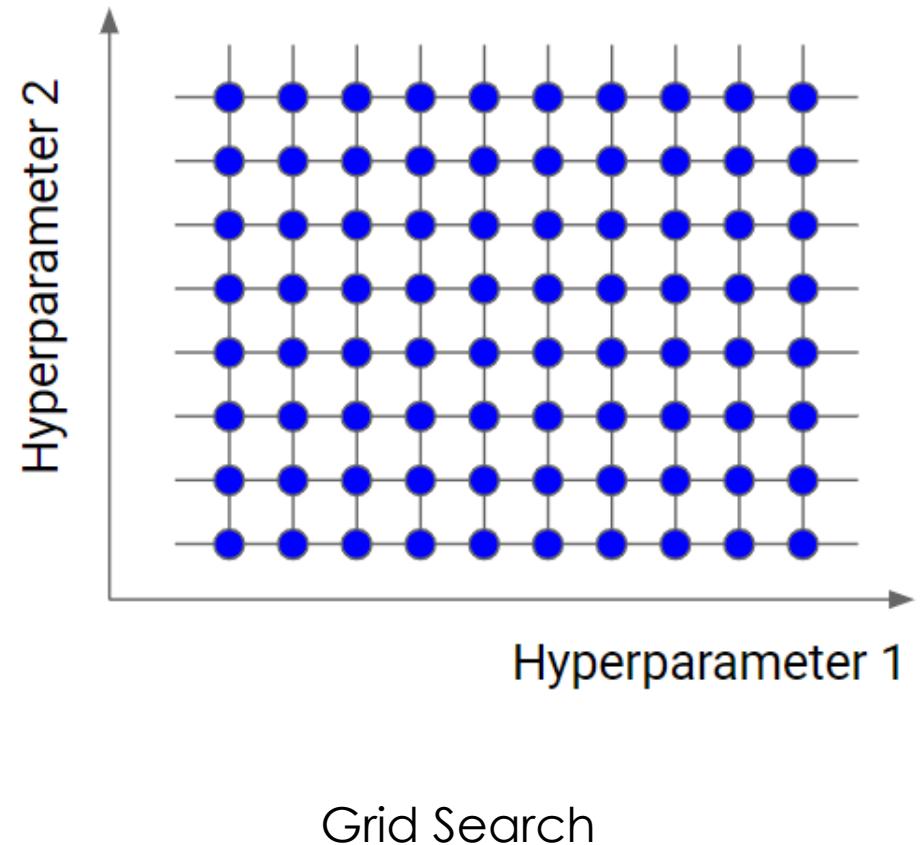


Update the entire network on a small data set

Fine tuning



Hyperparameter tuning



Referencias

- Foto de portada: Abhishek Tiwari
- Meor Amer, (2022), “**A visual Introduction to Deep Learning**”
- Roy Keyes, (2022), “**Deep Learning**”

GRACIAS

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