

Neural Network Objective Function – Metrics

Objective functions are optimized during training.

Metrics are a standard of measurement, especially one that evaluates a system.

Example Object Detection



Objective function

$$J_i = \|f - y_i\|_2^2$$

Metrics

- Intersection over union
- Precision & Recall
- Anything to evaluate and analyse the performance of your model and to gain insights ...

Note: Metrics do not need to contribute a meaningful loss for the gradient



bbox

2D (0-based) bounding box of the object:
Left, top, right, bottom image coordinates