## 3. val\_loss

This is the validation loss.

After generalizing well or just memorizingion set (the split you gave with validation\_data=...) and calculates the loss on that unseen data.

This tells you whether your model is generalizing well or just memorizing the training data.

## 4. val\_accuracy

This is the validation accuracy.

It's the percentage of correct predictions on the validation set.

If accuracy is high but val\_accuracy is low  $\rightarrow$  your model is probably overfitting (memorizing training but failing on new data).

## Where to pay attention

loss & accuracy = how well model is doing on training data.

2000

val\_loss & val\_accuracy = how well model is doing on new unseen data.

Always pay more attention to validation metrics because that shows how the model will behave in the real world.

Reg forsion

Classification

Classification

Binuty cross entropy

MAE (Mean Absolute exect)

Classification cross entropy

huber loss

MSE

$$(\hat{y} - y)^2$$
 $(\hat{y} - y)^2$ 
 $(\hat{y} - y)^2$ 

$$Cost function = \frac{1}{2} \sum_{i=1}^{n} (y^{i} - y^{i})^{2}$$

Pacs

- -> very common
- -> Penalizio the Big Crock





Cons

$$= \frac{1}{N} \sum_{j=1}^{N} (y - y^{-j})$$

Pros

- -> More Robust to Outliers
- -) Each error contributes equally

Cons

-> Dosent Punish large errors

huber loss

M SOE

