M T W T F S S
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YOUVA

Course - 3

WEEK - 1

1) Orthogonalisation

By the help of this we can improve our algo in a way that not many things change, & remember knob TV eg.

2) Single real no. evaluation metric

It is like movie Moneyball we have to funnel down everything to just one no.

F1 score is used, F1 score = Harmonic mean of Precision & Recall

$$= \frac{2}{\frac{1}{P} + \frac{1}{R}}$$

3) Optimizing & satisficing

In this we optimize one metric & set an upper or low metric for all others (satisfy others)

~~4~~ → Bayes optimal error - minimum error / best possible error (eg: 0.0001%)

Avoidable bias - diff in human ~~Bayes error~~ training

Variance - diff in Training & dev set

If humans are better then it is considered proxy of Bayes error.

4) To Reduce

Avoidable bias	Variance
- Train bigger model	- More data
- Train longer/better optimization techniques	- Regularisation
- NN archi. / hyperparameter search	⟷ same