

Source:

1 | **Validation**

We have visualized our models and used human judgment to, well, judge them. We have *not* done this algorithmically or mathematically.

Why?

Some things are blind to the human eye. Eg. underfitting and overfitting.

Not enough data, the algorithm was buggy (can't we see these though? maybe just not as easily?)

Underfitting

Wrong algorithm, buggy, or the data just sucks / there isn't actually a correlation.

Overfitting

Training *to well* to our dataset, making it not applicable to the real world / other data.

Bias-Variance Tradeoff

Bias - off Variance - inconsistent

We want low bias low variance (doih).

Holdout? nah, let's cross validate!

Like holdout, but you do it multiple times with different chunks of data 'held out'

Validation?

What do? - Accuracy - Easy, but not super effective / informative. -