## Model validation

02 July 2024 12:02

We need to evaluate the vast majority of every model we build. For most applic determined by predictive accuracy. This is the key to improving and iterating on

Many people make a huge mistake when measuring predictive accuracy. They measuring data and compare those predictions to the target values in the train problem with this approach and how to solve it in a moment, but let's think about the solve it in a moment, but let's think about the solve it in a moment, but let's think about the solve it in a moment, but let's think about the solve it in a moment, but let's think about the solve it in a moment.

First we must summarise model quality in a single metric instead of looking at each which is not useful as one it would take way too long and two individually it doesn't useful as there will be a mix of good and bad predictions.

To solve this issue we use something called Mean Absolute Error (MAE)

error=actual-predicted individual case

With the MAE metric, we take the absolute value of each error. This converts each error number. We then take the average of those absolute errors. This is our measure of mod English, it can be said as

On average, our predictions are off by about X.

To calculate this we import the MAE fuction from sklearn

from sklearn.metrics import mean\_absolute\_error predicted\_home\_prices = melbourne\_model.predict(X) mean\_absolute\_error(y, predicted\_home\_prices)

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individual case, tell us anything

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