



Platts Sailing

Many ML algorithms introduce biases when it comes to class probability

underpredict high-prob classes

overpredict low-prob classes

overpredict high-prob classes

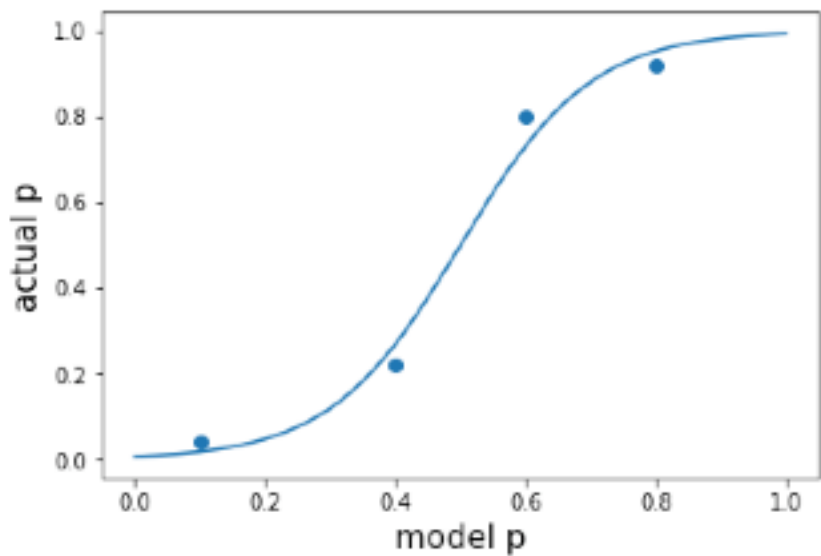
underpredict low-prob classes





Native Bayes

SWMS, GDBMS



- Correct for this by fitting a sigmoid to the model output:

$$P(x) = \frac{1}{1 + \exp(Af(x) + B)}$$

• Split data into two frames:

1) Training dataframe: used to generate $f(x)$

2) Platt calibration frame: used to fit A and B

Supervised Learning:

RANDOM FORESTS

Platt Scaling

- Many ML algorithms introduce biases when it comes to class probability

SVMs, GBMs { underpredict high-prob classes
overpredict low-prob classes

Naïve Bayes { overpredict high-prob classes
underpredict low-prob classes

- Correct for this by fitting a sigmoid to the model output:

$$P(\mathbf{x}) = \frac{1}{1 + \exp(Af(\mathbf{x}) + B)}$$

- Split data into two frames:
 - 1) Training dataframe: used to generate $f(\mathbf{x})$
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