

Accuracy: Accuracy is a meet outside is used when your datuses and churn 90 is just 107. and non churn is goy... Accuraty is not a nice nutrice when your date is bodged. multiple classification when data is baised an should not use is balanced. It we have a churry and non churry date

(Southwith) Relate fisone | foota . Romas (mbolomed) (TPF) A Walker TR+FN ij コイヤナイス a fredsion + kecall TP+ +P+ TN++N (1+ P) Faciston+ Revolu (ANT YELD) Predsion = Prevision x Recall B2 x Produlon + Recall) × Ram Harmon てヤナチク

Prodston M < 4 < 1 Reall AT, B>1 false position false positive how false regaltur and falke regalin are equally improvement has more impact than false positive more impact than folk regalive

threshold values ROC [0,0.2,0.4,0.6,0.8,1] and SUG CMANG (mosty used for bloamy classification

messor)

0.3 0.7 0.2 5.0 0.96 3.0 youd g (0) पे (०.2)

14 to

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1+1

103

444 12/8/20:80

(0,0) Th (0.2) (0) Y (3) かかん AUCS ROC Com Area undu m mor the Lum Cum better is the model anea under the

Total Ares shows always be 1/2 X 1 X 1 = 5.0 greeker than this green and a what threshold value we should select from this?

- Now go to a domain emper then true emper will let you know what he carris about

True Positive >> fake Positive (A)

false PostHu >> True PostHu (6)

True Positive & false Positive @

Bias - Variance of the model (Overfithy) underfithy)

preferred model = low blas, Low variance

very little parameters: - high botas | low variance very lype parameter : - low lotas | high variance

high blas - overslinglyted -> underfit low blas - overslinglyted -> underfit

Withvarlan & Prediction across thy real tays

> low - prediction chesters near the real target

Irreducible emor.

 $E_{m(n)} = \left(E[\hat{f}(n)] - f(n) \right)^2 + E\left[(\hat{f}(n) - E[\hat{f}(n)])^2 \right]$

+ oe2

Polas, Navian tradeoff

Cross Valldation | K-fold Cross valldation

In cross validation we han our modelly tracess of differen subset of data to get multiple measures of model quality.

EXI	VW		Train	. —
Exz	- Va	τ 1	$\frac{1}{\tau}$	$\overline{\tau}$
Ex3				
Ex4		7 0	J T	Τ
EXS	7	+	T Vo	JT
		T	<u>r</u> =	T 701