Overvier of ML
-Tramm,
-Testins
- Performance

N=1000,
$$\gamma=1$$
 b χ_1-Age

OR χ_2-i

(turset)

 $\gamma=\frac{1}{2}(x_1,x_2)$
 $\gamma=\frac{1}{2}(x_1,x$

 $arsynn = (y - \hat{y})^2$ => / F(y; - f(x, x))2 (1) Irahing (2) Par sormance

SITraining Y Age, I Training / Test 80% 20% (800) (200) raining $\hat{Y} = \hat{S}(Y_{1Te}, X_{2Te})$

Divide the data? 80/20 omin bias/max reprosenting of the training data

Party Person R Age \$ Person Trenton 800

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800 obs for Ranjon by School tomms (b) / = f(x1Tr, x2Tr) 800 1 = { (X_{11e} , X_{2Te}) 200 Compare Je,

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Ster 2 - Persormance Met-10s > regression - continuous value

(prices, 1/2 pem vote) orscrite gisack (5. I) % den (U-106%) distrobe 27 # 05 people ShowMe.com

ACC= BO% Precision=90% TP = 90 - 75%

Recall (Sensitivity) = TP+FN 120

Fi = 2 × (Precision × Recall) -2 (0.90.0.75)

Precision + Recall) -2 (0.9+0.76) Specisiaty = TN TNAFP True nesative

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N=1000 cities

Y= % voting for HRC in emph city

X= Ase (nvy for each city)

X= \$ (avs for each city)

X= \$ (avs for each city)

80/20 Trans / Test たっかける、XmrナらXzir Trum りたこのサアXize十段Xzze Tc st Te HRC in test data Te-previtaly, h, 1)

PMSFT. = (1/2-1/2)

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Bias-Varlance Trade off

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