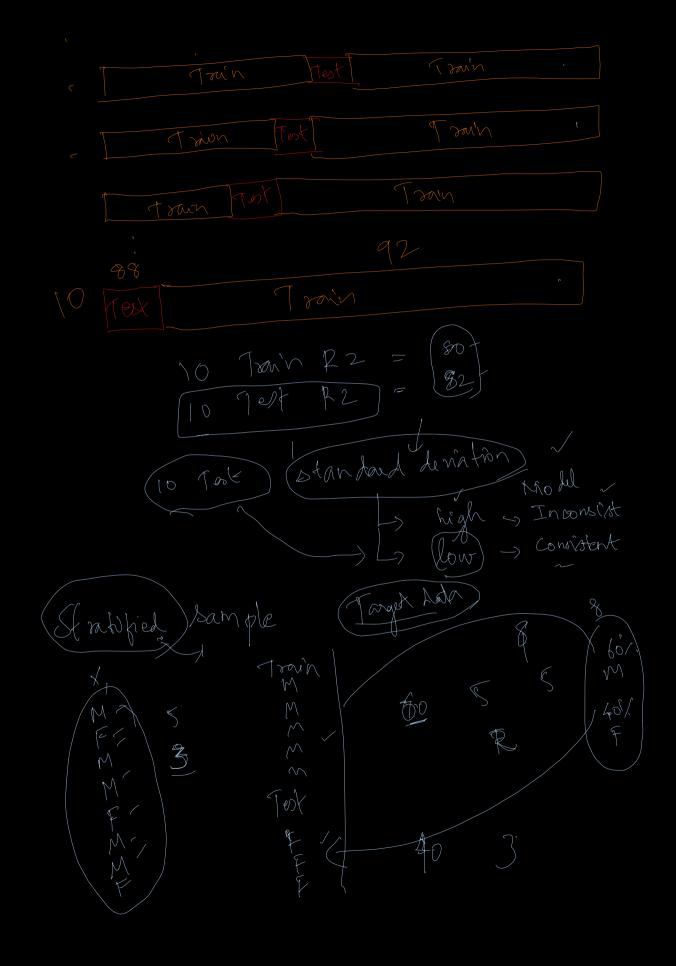
$a_{n} = \sum_{n=1}^{n} a_{n-1} + a_{n$ quadratic = mot + mozet b = 2 Cupic = m, x, + m, x, + m, x, 3+ b

1. Fit, Fit transform, (transform) standard scaler 6 = Standard deviation 100 Samples Scale, fit () -Scale "fit transform () -) find 4,6 and fransform to Samples - Test

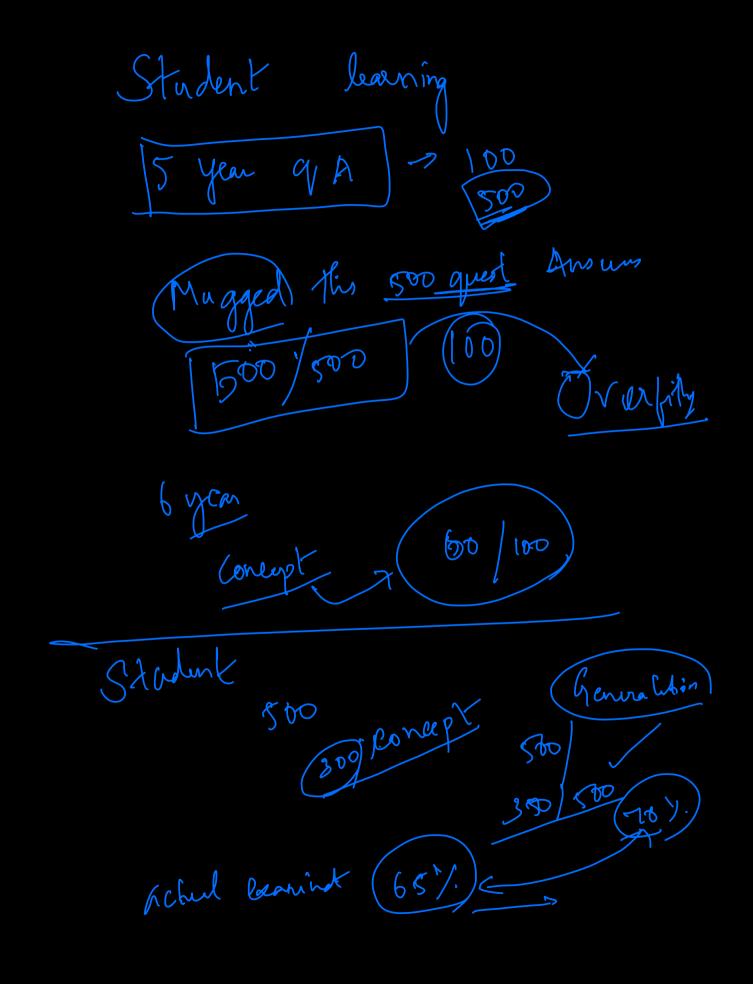
Solo Solo. Train > fit transform () > M, 6, transform Sule fran form () + Jaryforn

2. Split trategy (to) told Validation



Model = Train Tost -> Tred -> Model Complexity

Reneralization



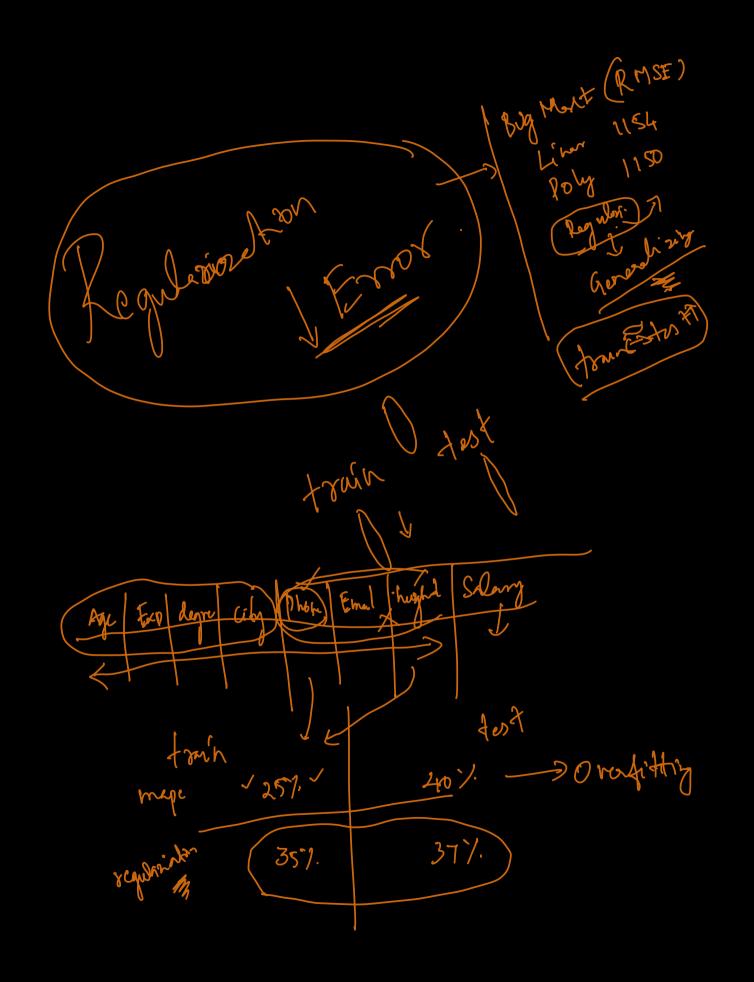
1. l. Lluso)

2 l2 (Ridge) 3. Elastic Nek

Regularization 4= m, X, +m, X, + b m, m, m, b of s findling Overfiting [m, m, m, b] Generalized regularly making check of not making itself to be a huge number error Ir Squerifoot / floor Age heighboad score
my 1 m2 m, my

Coefficients Size **9** N Penalty factor Lasso Regression Slope and Intacept I ANSE I Cniteria 1 MSTE and I slope and Inducept  $\leq (y-\hat{y})^T \downarrow$ JE: 2 (y - (m2+b)).

E = \( \lambda (\m' + b') \) + \( \lambda (\m' + b') \)
Larso = 2 y-(w,x+wo)) + 7 | w,+wo| Laro will reduce all the coefficient and make the Coefficient Zero if it is not important Lasso of Oreffithing - Jentile Room, -> (0) d stuff >> 900 Mom -> Clean > throwing unimported stuff



2. Ridge Regravion L2 E= E(y- (mx +b)) + 2 (m², +b²)
Ridge

Ridge Ridge -> reduce the Coefficient to but it will never make any lo efficient zero 3. Elatic Net: L1 +L2 E= \( \left( \frac{1}{y} - \left( \frac{1}{y} + \frac{1}{y} \right) \right) + \frac{1}{z} \left( \frac{1}{y} + \frac{1}{z} \right) \\ \text{Rilge}