## Interview Prep Session 1 [Classical Machine Learning]

## Warm Up Questions

Q! If you are training a LR to predict

Fartite using Celcius as independent very.

what will be the value of the intercept?

Automated | Easy

Solly We know >

Train a LR, st.

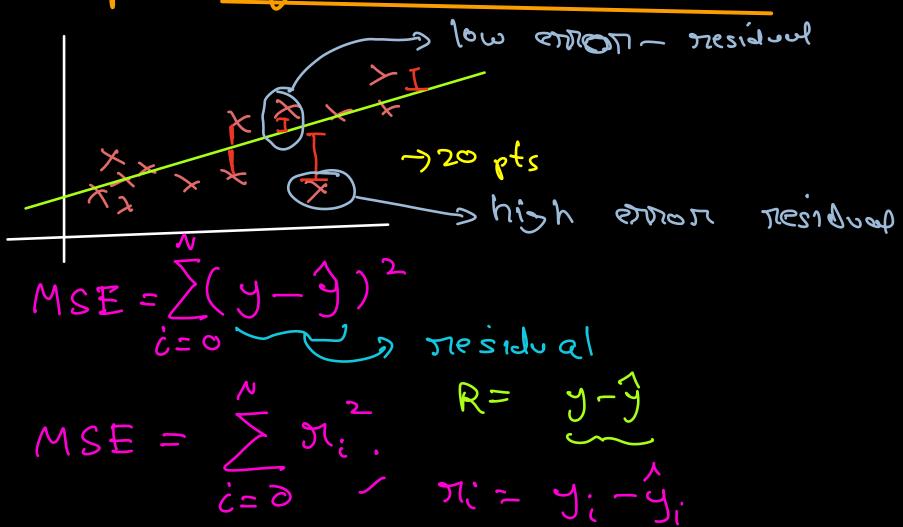
X= [-, -, -, -, ] Readings in

y= L., Peadingsio we need f(x), s.t  $\chi \rightarrow f \rightarrow g \sim y = \frac{9}{5}.x + 32$ natio of 1 y = 9 Hence consuer = 32.

Q'. After training a LR model, the residual distribution ennon has the following Should this model go into production? (Quíz) Mon -> Automated [ Easy Sol" > No > The ennon dist is not normal assuptions Violated -) The mean of residud is non-zerro, tue, indicating high tendency to over product

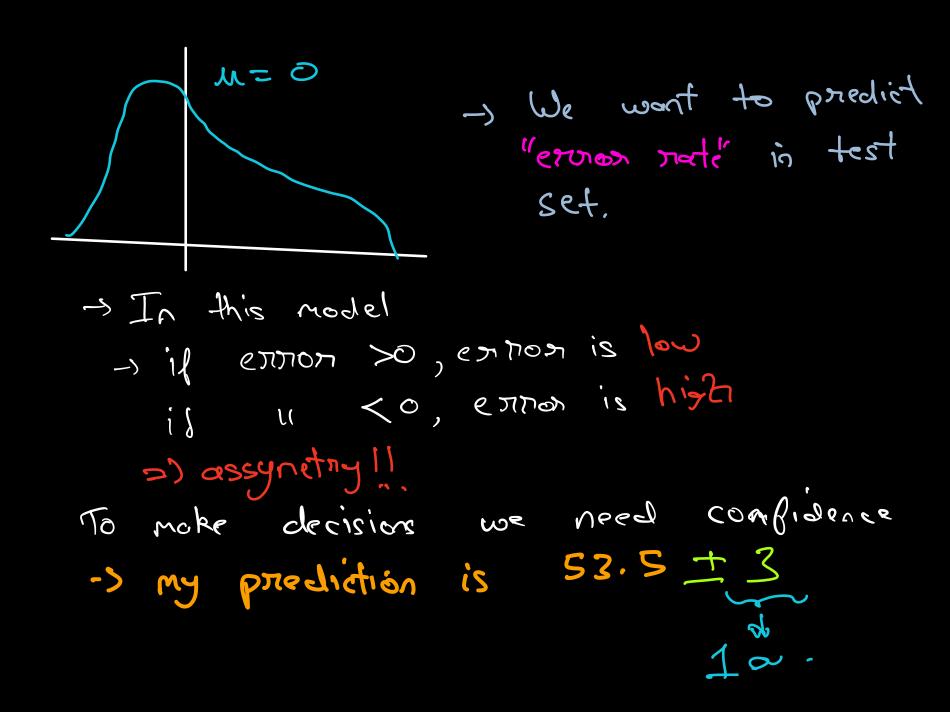
## Concept: Regnession Residuals K





Importance q Residules -) We jost saw -> all ennon metrics cone computed on residuals & Analysis  $X \qquad y \longrightarrow f(x) \rightarrow y \qquad y - y = \underline{x}$ ots.  $y \rightarrow f(x) \rightarrow y \qquad y - y = \underline{x}$ histogram CHILD -> Ideally for LR -> dist should be normal -> Mean should be -) Variance: lover the detter

Why But overall le entron न शामका।। tue ettron X -> We want symmetric . रार्वितार tec rect ? Over prodiction



1) If a netail company has 50% probit mongin for each sale, and 80%. Salvage price for unsold goods, while predicting Order Quantity, which of the following (Quíz) models seen best? -> Automated / Live | Medium 6) L OULD 1 OULS त ज्या L OULD

Salvage price = Disconted price @ un sold goods are sold (company looses money) The company wants mor profits if over-produce -> need to sell at salvage price Loss = 20% id under -produce > Loosing potential Profit Herer, better to y-9 40

Guenprie diet -> Next, choose one with low vernience Hence Ans -> d (mone accurate)