Winner 1 5 Deep Salunkher 21102 A0014 Last bap signiz liner model: []=mx+c) $n = \frac{n \sum xy - \sum x \sum y}{n \sum x^2 - (\sum x)^2} = 2.$ c= EJ-m [x] = 1 . slope (m=2): For ceen additional hr, the number of units product incomes by 2. -interest (c=1): I emit ast ohr we have 2 output 1) Pusher The objection is to give that in [Loss = 1 [(di-8)2. For that we we updat wo and b (c) w= w-n dL b= b-n dL

stochastic. Corndut Descent 2= worth Initial. w=05 b=0.01 For fast duple. J = 05 >1 +0.1 = 0.6. Compute pu groundent. 3] =-m(J; -J) x2 $= (3-0.6) \times 1 = 2.4.$ $\frac{\partial J}{\partial b} = -\pi (3i - \overline{J}) = (3 - 6 \cdot 6) = 2 - 4$ ypdahl wy w= w.- 1 85 0.5 - 0.9 × 2.4, C. 6. 4396 b= bo= 1 St = 0.1 - 0.01x2.4

Stochtic (+0)

$$J = \begin{bmatrix} 0.6 & 1.1 & 1.6 & 2.1 & 2.6 \end{bmatrix}$$
 $J = \begin{bmatrix} 0.6 & 1.1 & 1.6 & 2.1 & 2.6 \end{bmatrix}$
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 $J = \begin{bmatrix} 0.6 & 1.1 & 1.6 & 2.1 & 2.6 \end{bmatrix}$
 $J = \begin{bmatrix} 1.85 & 1.8$

$$\frac{3J}{3J} = -17L$$

$$3J = -17L$$

$$3J = -17(3-1.172) \times 2$$

$$-7.65L$$

$$3J = -17(5-1.172) = -3.824$$

$$-9.60052$$

$$b = 0.124 - 0.01(-3.829)$$

$$= 0.16224$$

$$3J = 0.60052$$

$$5 = 0.16224$$

$$3J = -17(27-1.3638) \times 3$$

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$$-15.1086$$

updals. W= 0.60052-0.01× C-15.1056) = 0.7515 b= 0.16224-0.01×(-5.0302) = 0.21254 Typle 4. W= 0.7515 b= 0.21254 $f = 6.7515 \times 4 + 0.21259 = 3.21859$ 35 = -1 × (3-3-21853) ×4 = -23.12583 dw $\frac{3}{36} = -1 \times (.3 - 3.21853) = -5.78147$ $W = 0.7515 \, \overline{b} \, 0.01 \times (-23.12584)$ = 0.9.827 b= 0.21254 - 0.01 × (-5.78197) = 0.2763 2 = 0.5827 ×5 +0.2703 = 5.1838 W= 0.9827 - 0.01 × (-29.08) Tuby 5 = 1,27351 37 = -1 (11-5.1838) ×5 = -29.00% b= .0.2703 - 0.01x(-5.812) 35 = -1 (-12) = - + 8112. = . 0.3284

1 item And weight after $\omega = 1.2737$ b= 0.32.87, 2.873 9.146 5.413 6.692 .; y=[1.602 MJE = - + E (g.-3) = 1 [1.954+4.524+8.145+12.180] 7185 8 60 P 83' 2 × 5 = 10 [46005] 57.4:6005. Process

 $\frac{3 = 2x + 1}{3 = 2x + 1}$ $\frac{3 = 2x + 1}{3 = 3x}$ $\frac{3 = 2x + 1}{3 = 3x}$ $\frac{3 = 2x + 1}{3 = 3x}$ $\frac{3 = 2x + 1}{3 = 3x}$

 $MUE = \frac{1}{2}m \left[\left(3^{2} - 3^{2} \right)^{2} \right]$ = 16.83

wm= 12m - n × <u>dL</u> 2 0.692

bm= bo1 = 1 × dL = 0.154

MJE => 1 (Ji- (wmxa+bm))2

= 13.085,

Final inference. + > Simple and fash Lines Repres => -=> Assums lineary, sensible to to outlos + > stible conveyer, good for small - => \$ low for larger data set. +=> Effective for soul time upday 5GD => -> Nony upday. 513 whom habory draw to - stern In is set also of a mondo of

~(B-16) 3 to = 1003

(5) of how in helps in you find the

- 1 - 4 - W