| | 1 Wy Cart lane |
|---|--|
| | The: wix + wo = 0 >> + typerplane |
| | d'dimenon * Significance |
| | = 307 x+C, * = 0 = 0 |
| | 1=201X+C3 () 201 & C × |
| | |
| | Casel & Slop (m) is |
| | o Intercept (c) is deferen |
| | C no 2 & Slop is different intercept same |
| | Case 2 + Slop is different, intercept same |
| | y = 307x+ C. |
| | X A= mix+ C2 |
| _ | |
| _ | |
| _ | |
| _ | Linear Regussion et Iganishon |
| _ | • |
| _ | De = { (x: y:) x: \in R'. y: \in R |
| _ | In Touristing of the IR . Sie IR |
| | Cx1.9:) " pinear Reg -rf-> line (m.c) |
| - | (xingi) " weight = m = weight + c |
| | |
| | • |
| | weight -> f(m.c) > -> Height |
| | Height = m x weight + C |
| | Here 2 variable, height & weight |
| | i.e. called Cimple Linear regression |
| _ | |

| * | DATE :// PAGE : | |
|-------------|--|---|
| | * Simple lineau Regrension * | - |
| | D= { (x:,y.) x; ER, y; ER} | |
| | | - |
| | Task 7. to get on & C To find a line that passer Thorough to a given data. | |
| | given data. | F |
| | H . Line should be best fit all the dataset | - |
| | predictor | H |
| | a D. Jenes | |
| | ρ ₂ ⇒ ε ₂ = y ₂ - ŷ ₂ | |
| | Pore = 0, e4 = 0, e50 | 1 |
| | talal ennan = e, + e, + e3 + e4 + e5- | - |
| | : tre f - re even can canalo out each other and | |
| | give arrong result so less square them | _ |
| | (a) ever = (4-9,)2+(42-92)+02+02 | |
| | Total evan - 5 (4:-9:5 |) |
| Note: | line with least told orner is go best | 7 |
| | predictor | |
| | Ophimization Theory | 5 |
| | $m', c'' = and min \left\{ \sum_{i=1}^{n} (y_i - \hat{y}_i)^2 \cdot \hat{y}_i - mx_i + c \right\}$ | 1 |
| | | £ |
| | $m, c' = ang min \left\{ \sum_{i=1}^{\infty} \left(y_i - \left(nnx_i + c \right) \right)^2 \right\}$ | 2 |
| | example track promisero, st | 3 |
| | J. January | |
| } — | | 4 |
| V | | 1 |