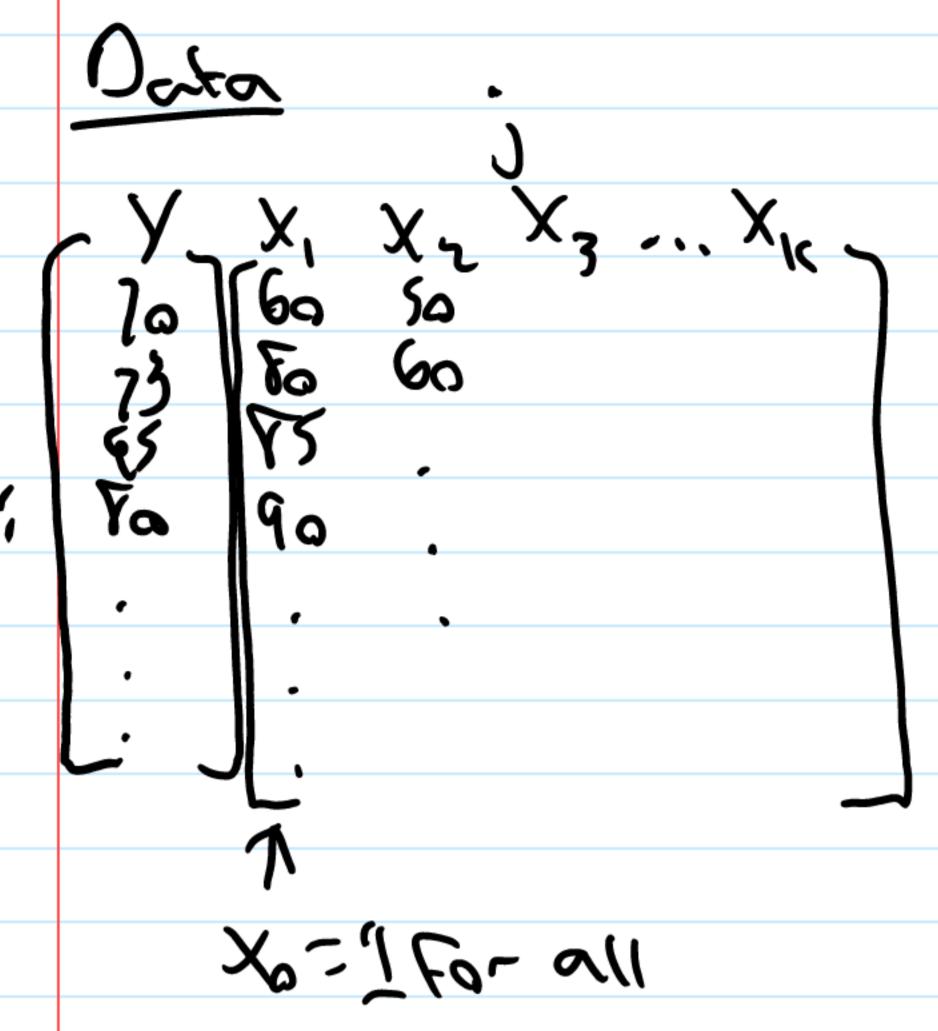
1.2 Data in Matrix Form

Wednesday, January 13, 2021

9:52 PM



Y X
$$E(y; | X_i) = B_0 + B_1 X_{i_1} + B_2 X_{i_2} + \dots$$

$$Y_i = E(y; | X_i) + P_i$$

$$Pred(ctable)$$

ECYIX) = XB 1 Grector & unknowns 7x matrix

Y=XB+1 bresidual maxrex

$$\begin{bmatrix}
y_1 \\
y_2 \\
\vdots \\
\vdots \\
y_n
\end{bmatrix} = \begin{bmatrix}
1 & x_{11} & x_{12} & \dots \\
1 & x_{11} & \dots \\
\vdots \\
1 & \vdots \\
1 &$$

; E1, 2, ... 1 y = x x + r y, = 1 · B o + X (B, + X 2 B 2 + ... X K B K + r) · ... Y x = ... + r x