1172023506. Assignment- Parth Agrawal Deduce the LR model in the form for two parameter predictors and then proceed to some the following assigned HWIX) = MOXO + WIXI riction feature hw(x) = wo+ W1 Xg al = man + amount 1) het us consider msamples (xi, Yi) i=1,2,3. m rather we are. (Xi), x(i) 2. Define an objective for J(wo, w) could be an error prediction like. J(wo, w,) = 2 (hwere) - x0)2 For m samples. J(wo,w,)= (wo+w,x10-4(1)) +(wo+w,x(2)-10))2 + - - - + (wot w, xm) - + (m) 2 To minimize J(wo,wi) Find, 3 J(W) = 2. { (wo+w, x(D - Y(D)) + --~ ~ (NO+W, × (m) - > (m))} => m wot Z Xi -Z Yi = 0 (1) 0 J(w) = 2 f (wo+w, x(1) - 4(1)) x(1)+ -(MO+M'X(W) - L(W)) X(W) } D(W). = NO Z X" + WIZ (X")2 - Z X" Y" - O.

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$$A = \sum_{i=1}^{m} x^{ij}$$

$$B = \sum_{i=1}^{m} y^{ij}$$

$$C = \sum_{i=1}^{m} (x^{ij})^{2}$$

$$M = \sum_{i=1}^{m} x^{ij} y^{ij}$$

 $\left(\sum_{i=1}^{\infty} (x^{(i)})^2 - m \sum_{i=1}^{\infty} (x^{(i)})^2\right)$