VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY

Hashu Advani Memorial Complex, Collector's Colony, R C Marg, Chembur, Mumbai-400074



Department of Artificial Intelligence and Data Science

Subject: DAV		Class: D1	Class: D11AD		
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 $b_1 = \xi n_2^2 \xi n_1 y - \xi n_1 n_2 \xi n_2 y$ $\xi n_1^2 \xi n_2^2 - (\xi n_1 n_2)^2$ b2: \(\frac{2}{2}\) \(\frac{2}\) \(\frac{2}{2}\) \(\frac{2}2\) \(bo = y - b, X, - b, X2 y = bo + b, n, + b, n, X X,2 y x₁ y X₂ y 05 X2 X2 X1 X2 9.29 37.16 9.29 16 4 12 2 12.17 25.34 152.04 24 4 144 12.42 37.26 198.72 16 9 48 256 8 1.52 6.38 3.04 32 16 64 32 20.77 103.85 664.64 160 25 1024 9.52 57.12 228.48 24 36 576 144 2.38 16.66 47.6 7 20 99 140 400 28 7.46 59.68 208.98 224 64 784 74.89 144 310.72 1540.5 36 776 204 3 264

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= 672(-26.28) - 128(192.48) $42(672) - 128^{2}$

= -3.572

b2: $\Sigma n_1^2 \Sigma n_2 y - \Sigma n_1 n_2 \Sigma n_1 y$ $\Sigma n_1^2 \Sigma n_2^2 - (\Sigma n_1 n_2)^2$

= 42(192.48) - 128(-26.28) $42(172) - 128^{2}$

= 0.966

b. = y - b, X, - b, X2

= 74.89 - (-3.572) 36 - 0.966 (144)

= 8.047

y = 8.047 - 3.572 n, + 0.966 n2

Conclusion

Thus we have successfully implemented Multi-linear regressions