

Equations

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Let Y be an ordinal variable with categories $j = 1, \dots, J$ where $P(Y \leq J) = 1$. For k different predictors X_1, \dots, X_k :

$$\log \frac{P(Y \leq j)}{P(Y > j)} = \beta_0^{(j)} + \beta_1 X_1 + \dots + \beta_i X_i$$