

Ordinal Logistic Regression: Rating Prediction

$$p(r \geq j | X) \geq 0.5 \Leftrightarrow \frac{e^{\alpha_j + \text{score}(X)}}{e^{\alpha_j + \text{score}(X)} + 1} \geq 0.5 \Leftrightarrow \text{score}(X) \geq -\alpha_j$$

