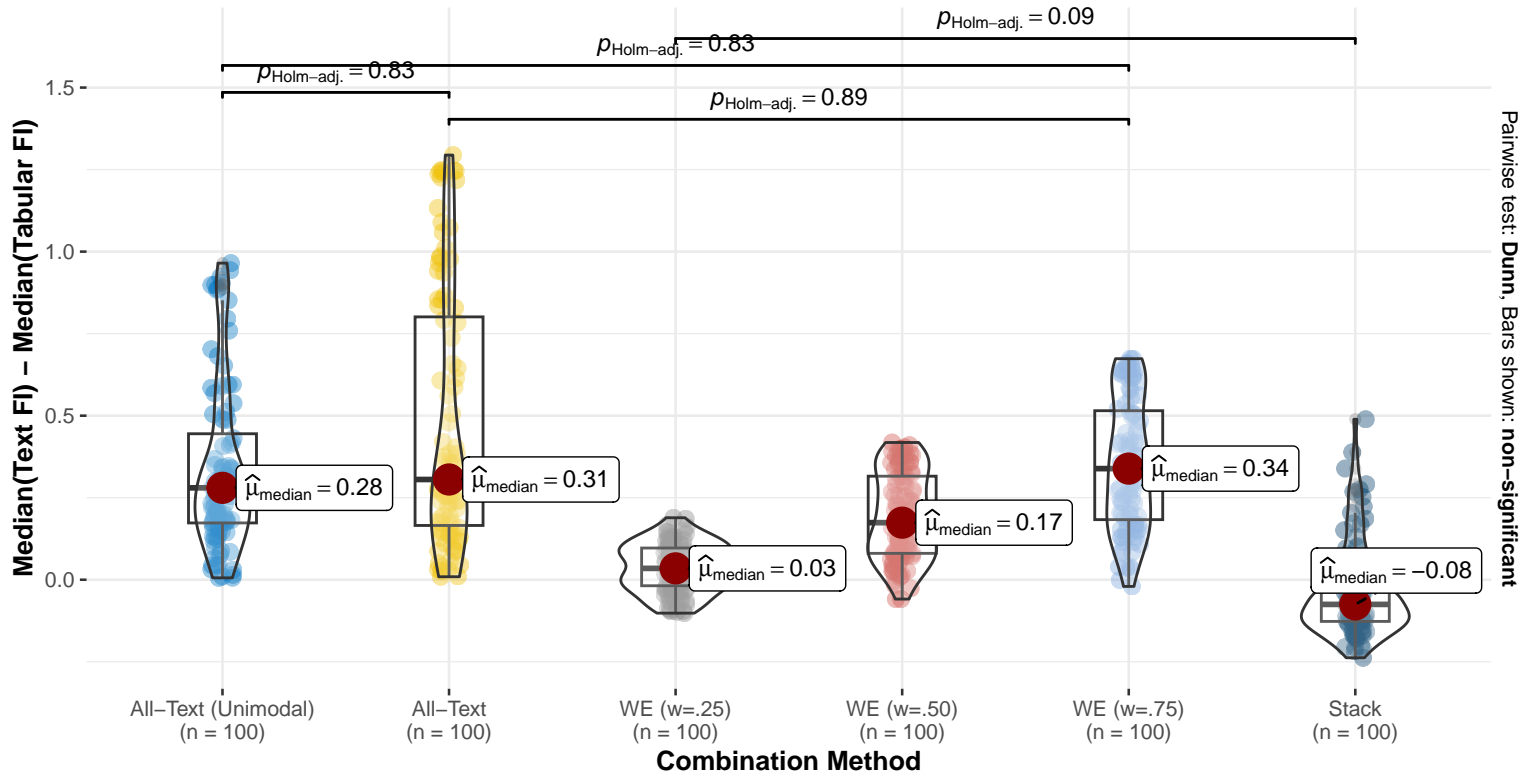# Are Text or Tabular Features Assigned More Importance?, Difference in Median Feature Importance (SHAP), by Combination Method

$\chi^2_{\text{Kruskal-Wallis}}(5) = 303.96$, $p = 1.41\text{e}{-63}$, $\hat{\epsilon}^2_{\text{ordinal}} = 0.51$, $\text{CI}_{95\%}$ [0.47, 1.00], $n_{\text{obs}} = 600$

Median(Text FI) − Median(Tabular FI) (y-axis)

Combination Method (x-axis)

$p_{\text{Holm-adj.}} = 0.09$

$p_{\text{Holm-adj.}} = 0.83$

$p_{\text{Holm-adj.}} = 0.83$

$p_{\text{Holm-adj.}} = 0.89$

$\hat{\mu}_{\text{median}} = 0.28$
$\hat{\mu}_{\text{median}} = 0.31$
$\hat{\mu}_{\text{median}} = 0.03$
$\hat{\mu}_{\text{median}} = 0.17$
$\hat{\mu}_{\text{median}} = 0.34$
$\hat{\mu}_{\text{median}} = -0.08$

All−Text (Unimodal) (n = 100)
All−Text (n = 100)
WE (w=.25) (n = 100)
WE (w=.50) (n = 100)
WE (w=.75) (n = 100)
Stack (n = 100)

Pairwise test: **Dunn**, Bars shown: **non-significant**

Dataset: imdb_genre Text Model: DistilBERT