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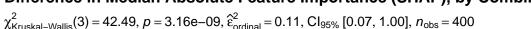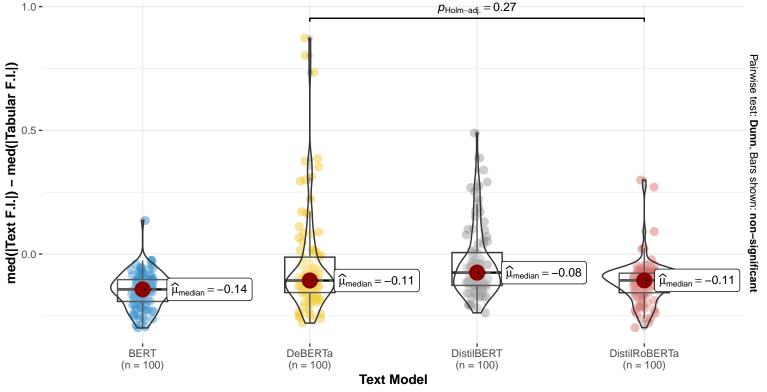## Difference in Median Absolute Feature Importance (SHAP), by Combination Method

$\chi^2_{\text{Kruskal-Wallis}}(3) = 42.49, p = 3.16\text{e}{-}09, \widehat{\varepsilon}^2_{\text{ordinal}} = 0.11, \text{CI}_{95\%} [0.07, 1.00], n_{\text{obs}} = 400$

$p_{\text{Holm-adj.}} = 0.27$

y-axis: med(|Text F.I.|) − med(|Tabular F.I.|)

$\widehat{\mu}_{\text{median}} = -0.14$

$\widehat{\mu}_{\text{median}} = -0.11$

$\widehat{\mu}_{\text{median}} = -0.08$

$\widehat{\mu}_{\text{median}} = -0.11$

BERT
(n = 100)

DeBERTa
(n = 100)

DistilBERT
(n = 100)

DistilRoBERTa
(n = 100)

Text Model

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

Dataset: imdb_genre Combination Method: Stack