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

$\chi^2_{\text{Kruskal-Wallis}}(4) = 198.36$, $p = 8.44\text{e}-42$, $\hat{\epsilon}^2_{\text{ordinal}} = 0.40$, $\text{CI}_{95\%}$ [0.34, 1.00], $n_{\text{obs}} = 500$

$p_{\text{Holm-adj.}} = 0.18$

$\hat{\mu}_{\text{median}} = 0.11$

$\hat{\mu}_{\text{median}} = 0.06$

$\hat{\mu}_{\text{median}} = 0.05$

$\hat{\mu}_{\text{median}} = 0.12$

$\hat{\mu}_{\text{median}} = 0.20$

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

Median(Text FI) − Median(Tabular FI)

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

Combination Method

Dataset: salary Text Model: DistilBERT