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

(n = 100)

(n = 100)

 $\chi^2_{\text{Kruskal-Wallis}}(4) = 136.53, p = 1.56e-28, \hat{\epsilon}^2_{\text{ordinal}} = 0.27, \text{Cl}_{95\%}[0.22, 1.00], n_{\text{obs}} = 500$ $p_{\text{Holm-adj.}} = 1.00$ $p_{\text{Holm-adj.}} = 1.00$ Pairwise test: **Dunn**, Bars shown: non-significant Median(Text FI) – Median(Tabular FI) $\widehat{\mu}_{\text{median}} = 0.25$ $\widehat{\mu}_{median} = 0.16$ $\widehat{\mu}_{median} = 0.15$ $\widehat{\mu}_{median} = 0.07$ $\widehat{\mu}_{median} = -0.04$ All-Text (Unimodal) All-Text WE (w=.25) WE (w=.50) WE (w=.75)

(n = 100)

Combination Method

Dataset: salary Text Model: DistilRoBERTa

(n = 100)

(n = 100)