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

 $\chi^2_{\text{Kruskal-Wallis}}(5) = 298.89, p = 1.73e-62, \hat{\epsilon}_{\text{ordinal}}^2 = 0.50, \text{CI}_{95\%}[0.45, 1.00], n_{\text{obs}} = 600$ $p_{\text{Holm-adj.}} = 0.13$ 1.2 -Pairwise test: **Dunn**, Bars shown: **non-significant** ned(|Text F.I.|) – med(|Tabular F.I.|) $\widehat{\mu}_{median} = 0.77$ $\widehat{\mu}_{median} = 0.62$ $\widehat{\mu}_{median} = 0.27$ $\widehat{\mu}_{median} = 0.14$ $\widehat{\mu}_{median} = 0.02$ $\widehat{\mu}_{median} = -0.11$ All-Text (Unimodal) All-Text WE (w=.25) WE (w=.50) WE (w=.75) Stack

Combination Method

(n = 100)

(n = 100)

(n = 100)

Dataset: imdb_genre Text Model: DeBERTa

(n = 100)

(n = 100)