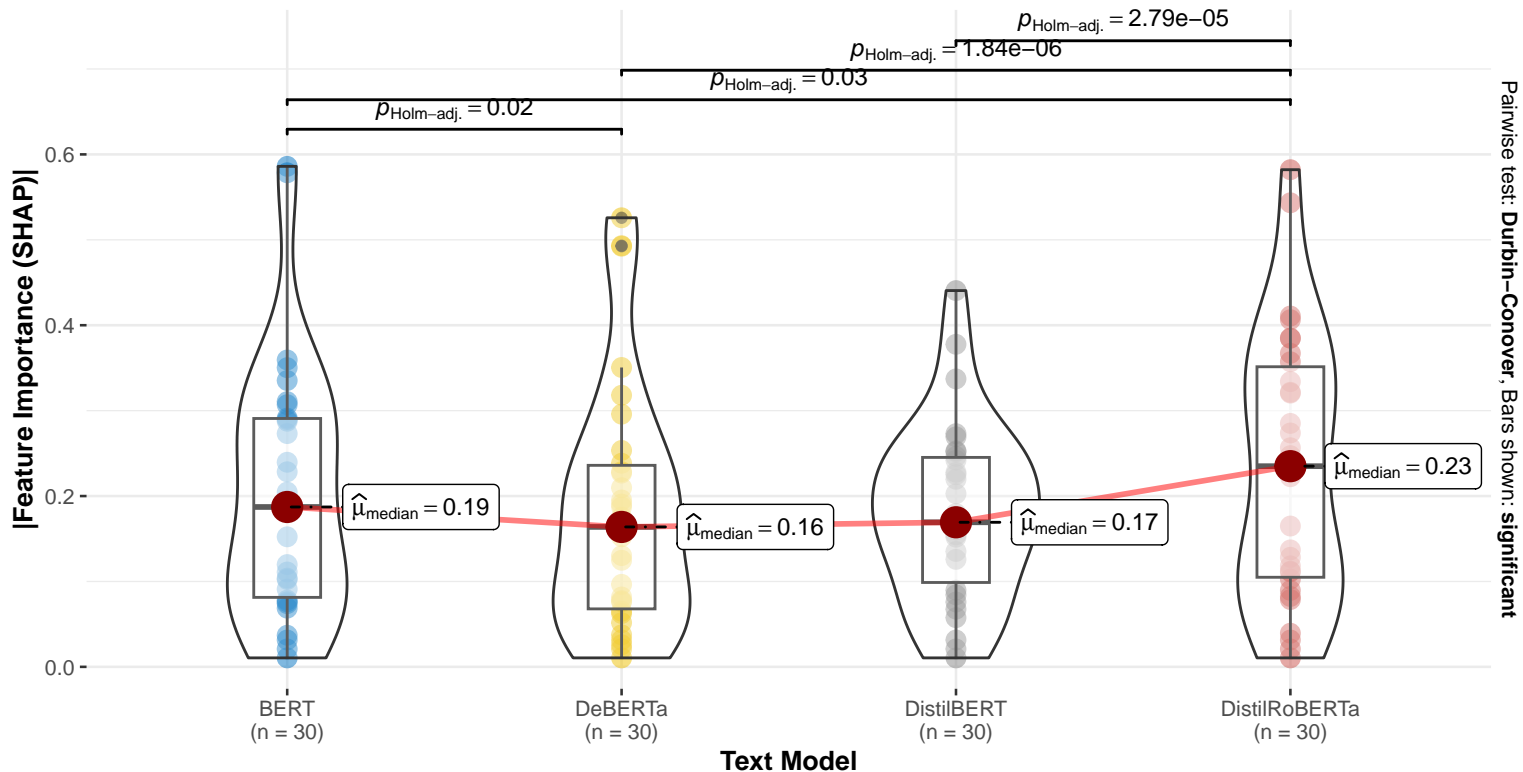# Are the Same Features Always the Most Important?
Absolute Feature Importance (SHAP) Compared, by Text Model

$\chi^2_{\text{Friedman}}(3) = 27.16$, $p = 5.45\text{e}{-}06$, $\widehat{W}_{\text{Kendall}} = 0.30$, $\text{CI}_{95\%}$ [0.14, 1.00], $n_{\text{pairs}} = 30$

$p_{\text{Holm-adj.}} = 2.79\text{e}{-}05$

$p_{\text{Holm-adj.}} = 1.84\text{e}{-}06$

$p_{\text{Holm-adj.}} = 0.03$

$p_{\text{Holm-adj.}} = 0.02$

Pairwise test: **Durbin–Conover**, Bars shown: **significant**

|Feature Importance (SHAP)|

$\widehat{\mu}_{\text{median}} = 0.19$

$\widehat{\mu}_{\text{median}} = 0.16$

$\widehat{\mu}_{\text{median}} = 0.17$

$\widehat{\mu}_{\text{median}} = 0.23$

BERT
(n = 30)

DeBERTa
(n = 30)

DistilBERT
(n = 30)

DistilRoBERTa
(n = 30)

Text Model

Dataset: prod *Distilbert−stack model excluded