SHAP analysis of LSTM-MDN-IV ES 97.5% estimates High  $IV_{10-day}$  (1 day ago)  $IV_{10-dav}$  (2 days ago)  $IV_{10-dav}$  (3 days ago)  $IV_{20-day}$  (1 day ago) Feature value  $IV_{20-dav}$  (6 days ago)  $IV_{10-dav}$  (4 days ago)  $IV_{20-day}$  (7 days ago)  $IV_{20-day}$  (5 days ago)  $IV_{20-dav}$  (8 days ago)  $IV_{10-day}$  (6 days ago) Low 0.005 0.010 -0.010-0.0050.000 0.015 SHAP value (impact on model output)