Appendices

**Trust Sentiment Random Forest**

Chart

Description automatically generated

Appendix 1: Variable important plot for trust sentiment random forest using node purity

Chart

Description automatically generated Chart, line chart

Description automatically generated

Appendix 2: Observed (left) and predicted (right) trust sentiment vs time

**Surprise Sentiment Random Forest**

Chart

Description automatically generated

Appendix 3: Variable important plot for surprise sentiment random forest using node purity

Chart

Description automatically generated Chart, box and whisker chart

Description automatically generated

Appendix 4: Observed (left) and predicted (right) surprise sentiment vs time

**Sadness Sentiment Random Forest**

**Sadness Sentiment Random Forest**

Chart

Description automatically generated

Appendix 5: Variable important plot for sadness sentiment random forest using node purity

Chart, text

Description automatically generated Graphical user interface, chart, line chart

Description automatically generated

Appendix 6: Observed (left) and predicted (right) sadness sentiment vs time

**Joy Sentiment Random Forest**

Chart, scatter chart

Description automatically generatedAppendix 7: Variable important plot for joy sentiment random forest using node purity

Chart, line chart

Description automatically generated Chart, line chart

Description automatically generated

Appendix 8: Observed (left) and predicted (right) joy sentiment vs time

**Fear Sentiment Random Forest**

Chart, scatter chart

Description automatically generated

Appendix 9: Variable important plot for fear sentiment random forest using node purity

Chart, line chart

Description automatically generated Chart, line chart

Description automatically generated

Appendix 10: Observed (left) and predicted (right) fear sentiment vs time

**Disgust Sentiment Random Forest**

Chart, scatter chart

Description automatically generated

Appendix 11: Variable important plot for disgust sentiment random forest using node purity

Text

Description automatically generated Chart, line chart

Description automatically generated

Appendix 12: Observed (left) and predicted (right) disgust sentiment vs time

**Anticipation Sentiment Random Forest**

Chart

Description automatically generatedAppendix 13: Variable important plot for anticipation sentiment random forest using node purity

Chart, line chart

Description automatically generated Chart, line chart

Description automatically generated

Appendix 14: Observed (left) and predicted (right) anticipation sentiment vs time

**Anger Sentiment Random Forest**

Chart, line chart

Description automatically generated

Appendix 15: Variable important plot for anger sentiment random forest using node purity

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generated

Appendix 16: Observed (left) and predicted (right) anger sentiment vs time