A: Grey Model

B: Neural Network

Fitted Forecasted Observed

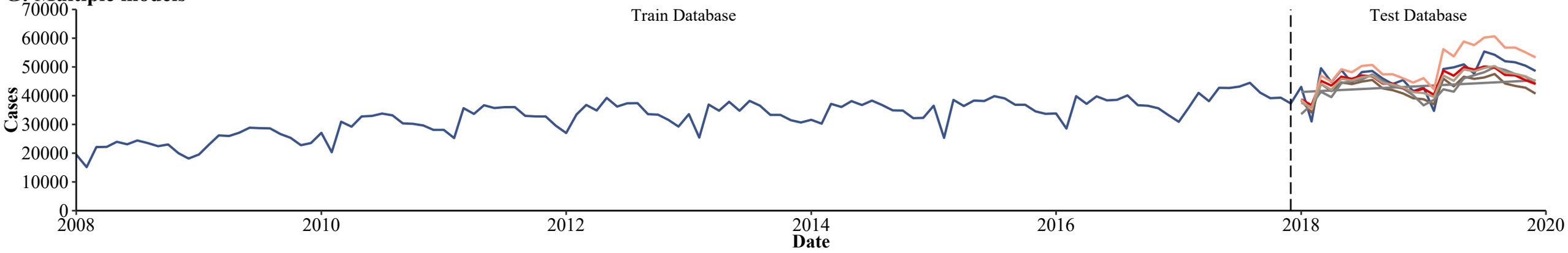
C: STL

D: ETS

E: SARIMA

F: Hybrid

G: Multiple models



ETS Hybrid Observed SARIMA STL

H : RMSE of Models

Method	Train	Test	Train and Test
Grey Model	3810.97	6050.02	4266.54
Neural Network	1971.18	4956.85	2765.22
STL	1512.31	4735.92	2375.72
ETS	1585.94	3379.75	1999.94
SARIMA	1698.29	5115.59	2600.97
Hybrid*	1592.36	3421.92	2050.27

*Hybrid: Combined SARIMA, ETS, STL and Neural Network model

I : R-squared of Models

Method	Train	Test	Train and Test
Grey Model	0.61	0.28	0.74
Neural Network	0.85	0.56	0.87
STL	0.94	0.77	0.94
ETS	0.93	0.77	0.94
SARIMA	0.92	0.77	0.91
Hybrid*	0.90	0.80	0.93

*Hybrid: Combined SARIMA, ETS, STL and Neural Network model

J : MAE of Models

Method	Train	Test	Train and Test
Grey Model	3067.13	5288.30	3437.33
Neural Network	1449.60	4235.82	1956.19
STL	1077.22	4080.68	1577.80
ETS	1090.20	2816.57	1377.93
SARIMA	1195.46	4583.40	1760.12
Hybrid*	1083.79	2983.29	1429.15

*Hybrid: Combined SARIMA, ETS, STL and Neural Network model