

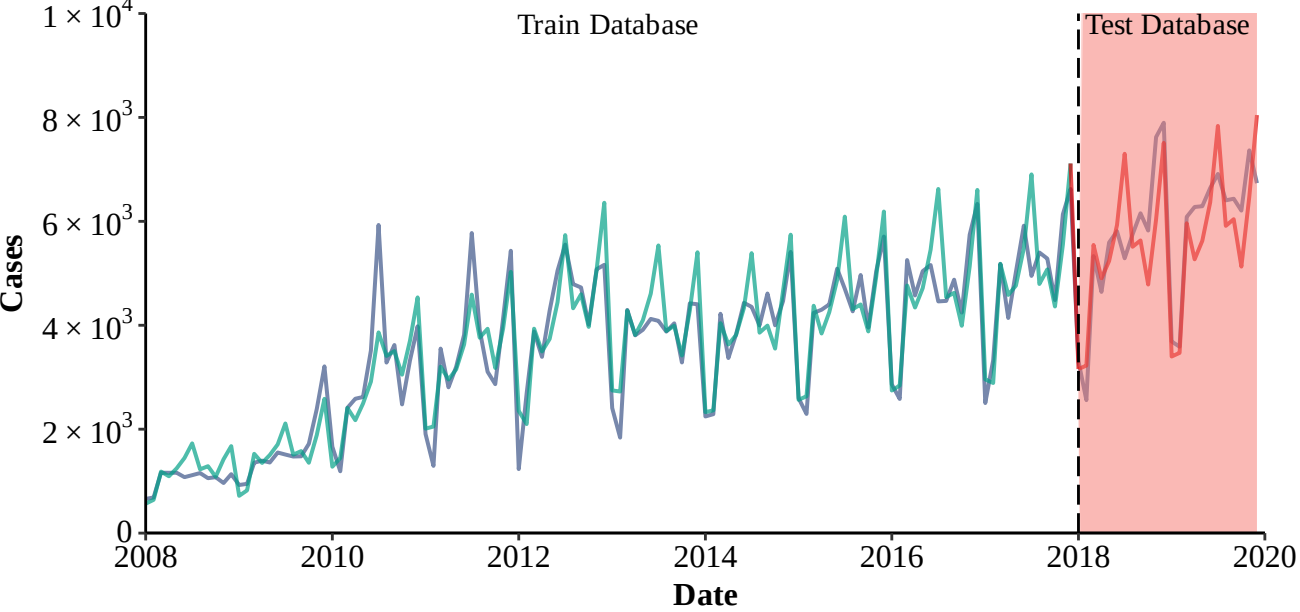
A: Neural Network



B: Prophet



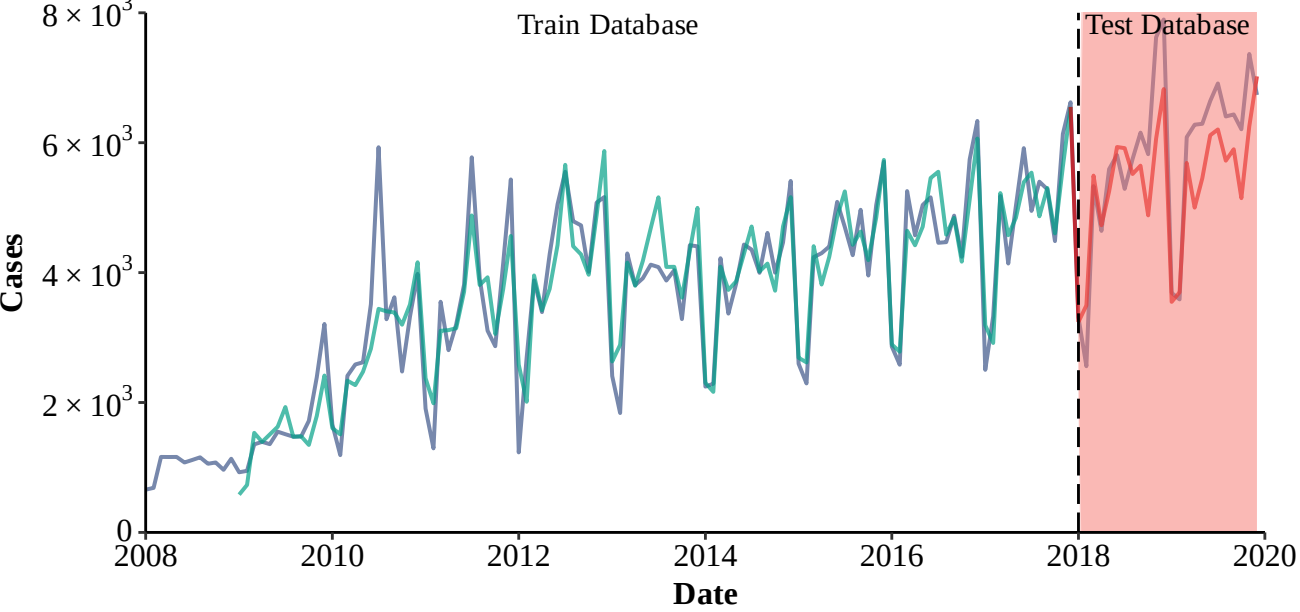
C: ETS



D: SARIMA



E: Hybrid



F: Bayesian Structural



Fitted Forecasted Observed

G : RMSE of Models

| Method | Train | Test | All |
|---------------------|--------|--------|--------|
| Neural Network | 569.38 | 980.63 | 663.39 |
| Prophet | 574.77 | 891.28 | 638.51 |
| ETS | 548.11 | 801.15 | 597.77 |
| SARIMA | 565.96 | 596.71 | 571.20 |
| Hybrid* | 487.79 | 728.33 | 539.56 |
| Bayesian Structural | 610.87 | 614.95 | 611.56 |

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

H : SMAPE of Models

| Method | Train | Test | All |
|---------------------|-------|-------|-------|
| Neural Network | 12.73 | 13.89 | 12.94 |
| Prophet | 19.42 | 13.50 | 18.43 |
| ETS | 11.74 | 10.89 | 11.60 |
| SARIMA | 11.33 | 8.77 | 10.91 |
| Hybrid* | 10.65 | 10.58 | 10.64 |
| Bayesian Structural | 13.48 | 8.89 | 12.71 |

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

I : MASE of Models

| Method | Train | Test | All |
|---------------------|-------|------|------|
| Neural Network | 0.74 | 1.43 | 0.84 |
| Prophet | 0.54 | 1.16 | 0.70 |
| ETS | 0.46 | 0.54 | 0.45 |
| SARIMA | 0.60 | 0.61 | 0.59 |
| Hybrid* | 0.39 | 0.76 | 0.53 |
| Bayesian Structural | 0.51 | 0.60 | 0.65 |

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

J : R-squared of Models

| Method | Train | Test | All |
|---------------------|-------|------|------|
| Neural Network | 0.83 | 0.85 | 0.84 |
| Prophet | 0.86 | 0.80 | 0.87 |
| ETS | 0.88 | 0.68 | 0.88 |
| SARIMA | 0.87 | 0.85 | 0.89 |
| Hybrid* | 0.87 | 0.82 | 0.89 |
| Bayesian Structural | 0.84 | 0.82 | 0.88 |

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