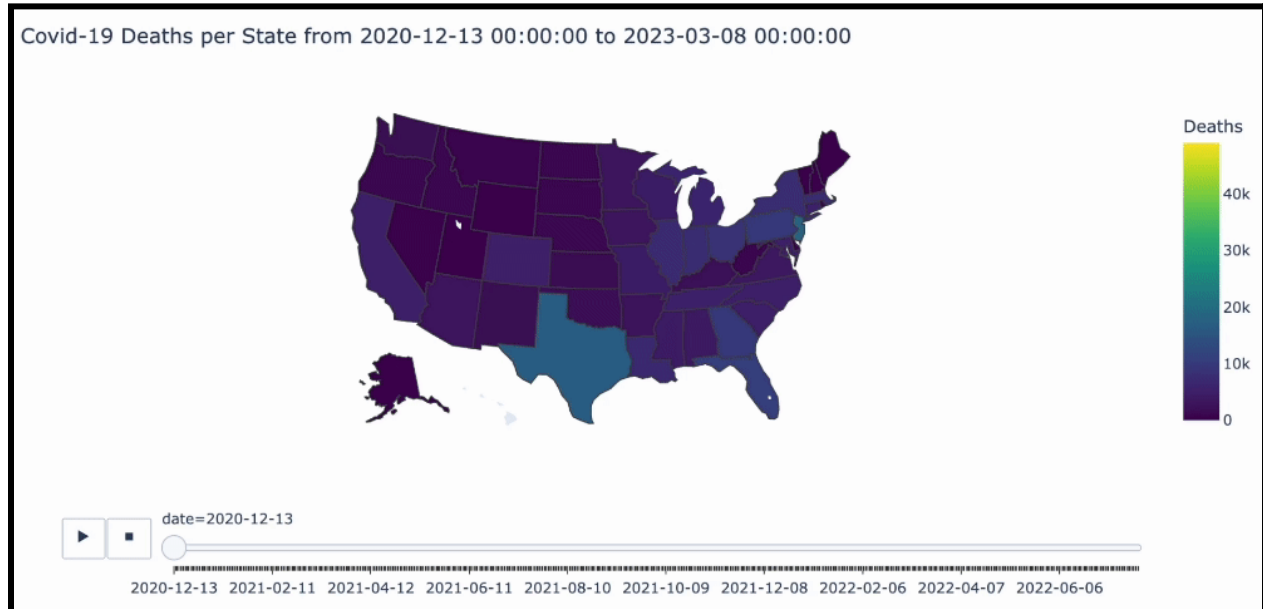


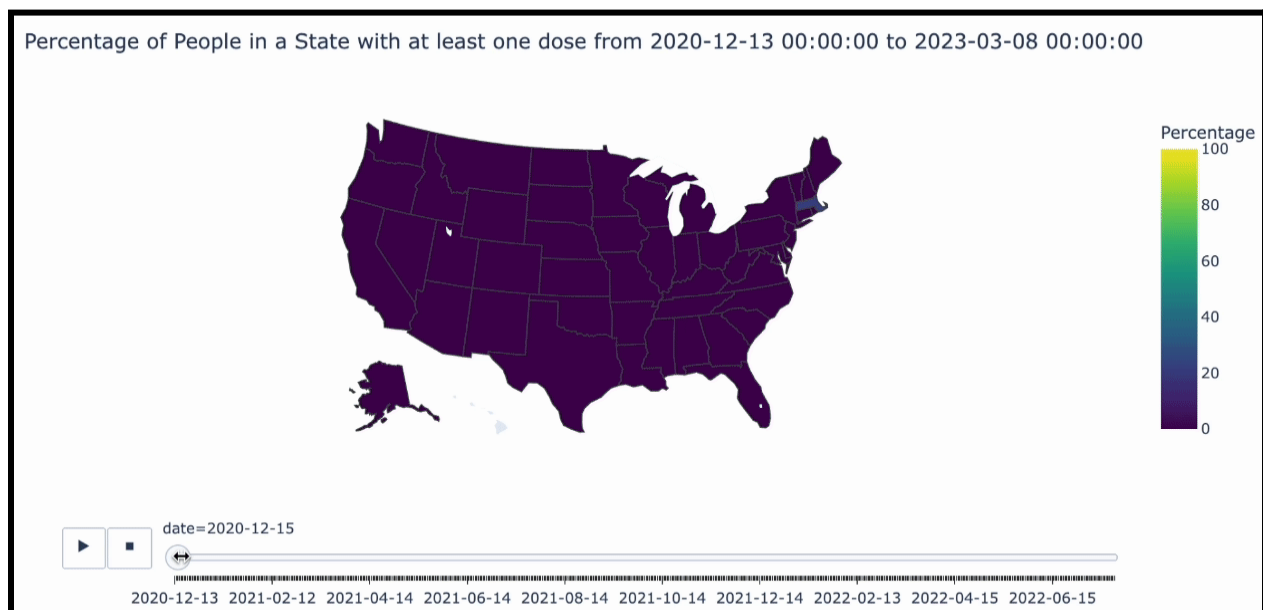
Visualizations Appendix

Figure 1. Geographical & temporal distribution of COVID-19 related deaths



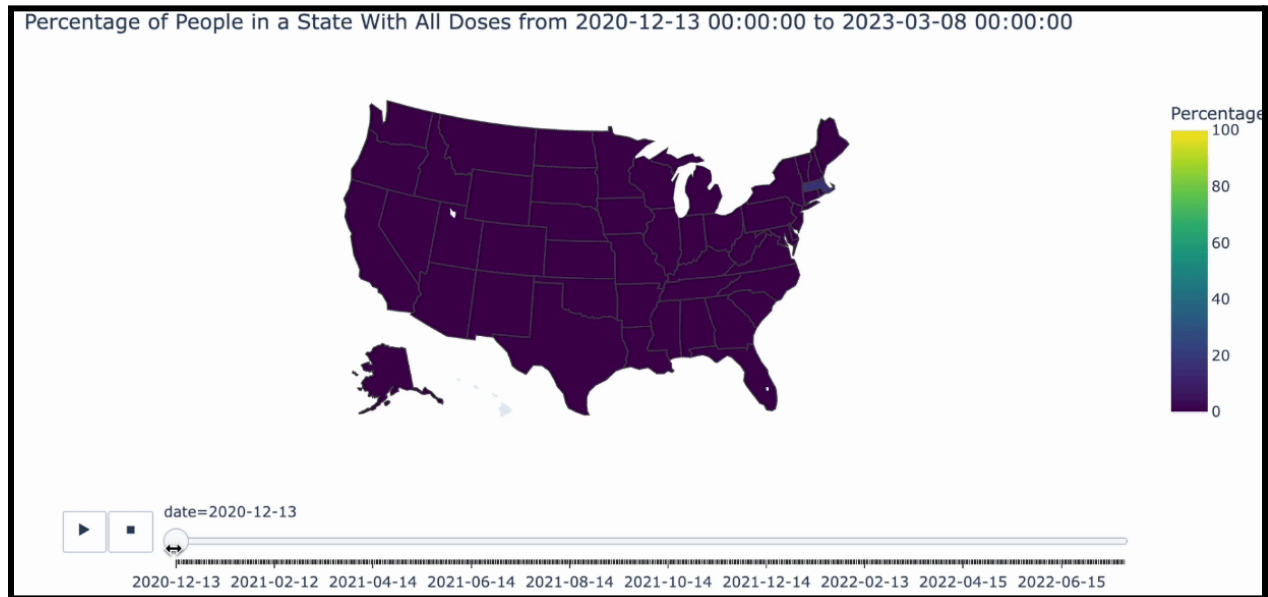
[Figure 1: Animated Link](#)

Figure 2. Geographical & temporal distribution of all age groups with at least 1 dose of vaccination



[Figure 2: Animated Link](#)

Figure 3. Geographical & temporal distribution of all age groups with full vaccination status



[Figure 3: Animated Link](#)

Figure 4. LightGBM Predictions (lag=14, no death, county level)

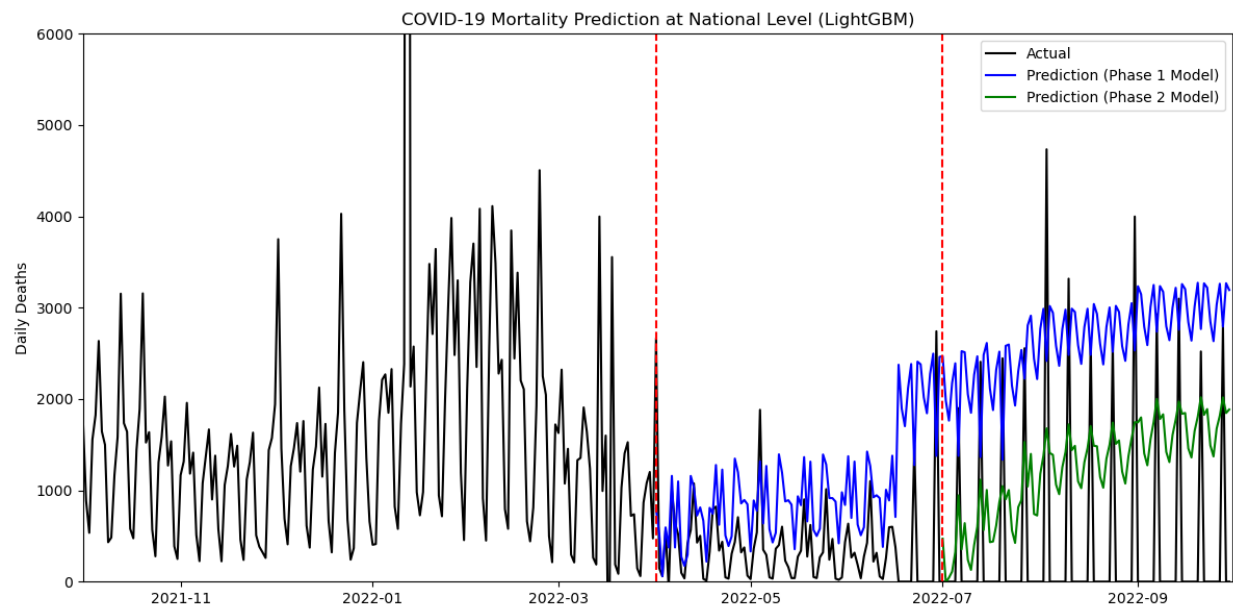


Figure 5. LightGBM Predictions (lag=14, no death, state level)

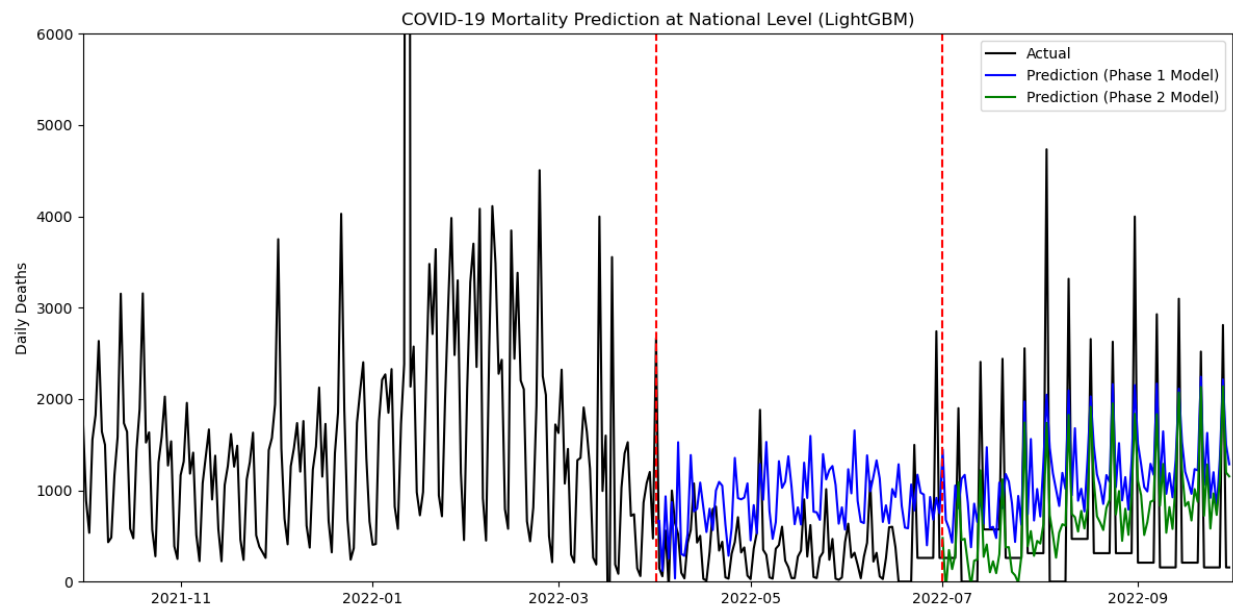


Figure 6. LightGBM Predictions (lag=14, death, state level)

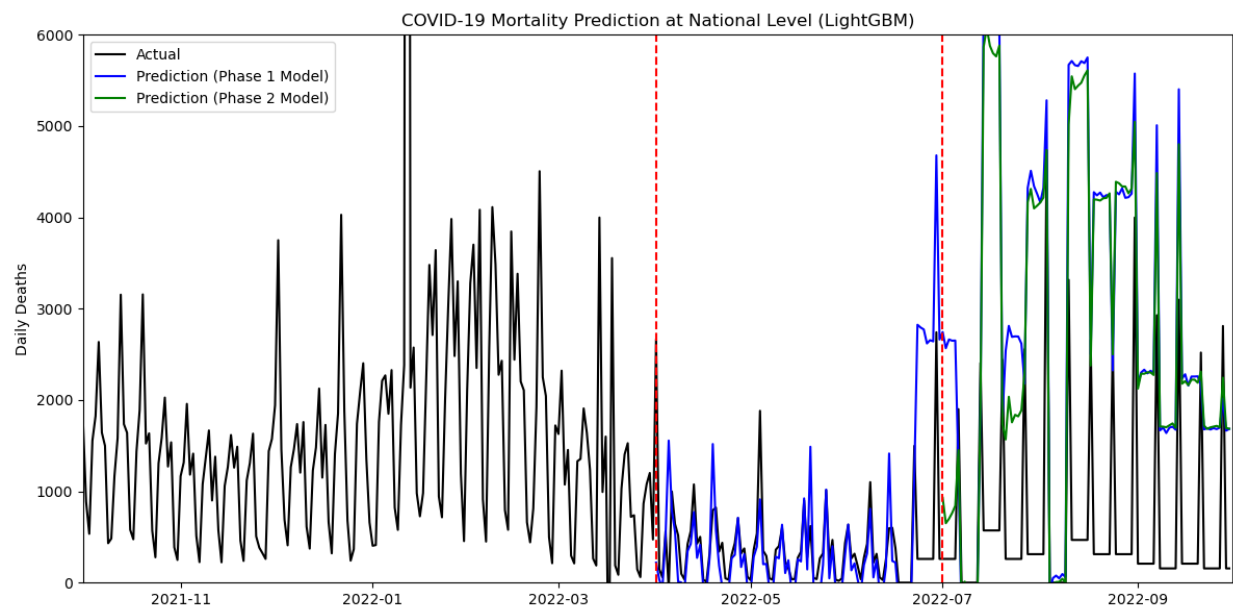


Figure 7. LightGBM Predictions (lag=21, no death, state level)

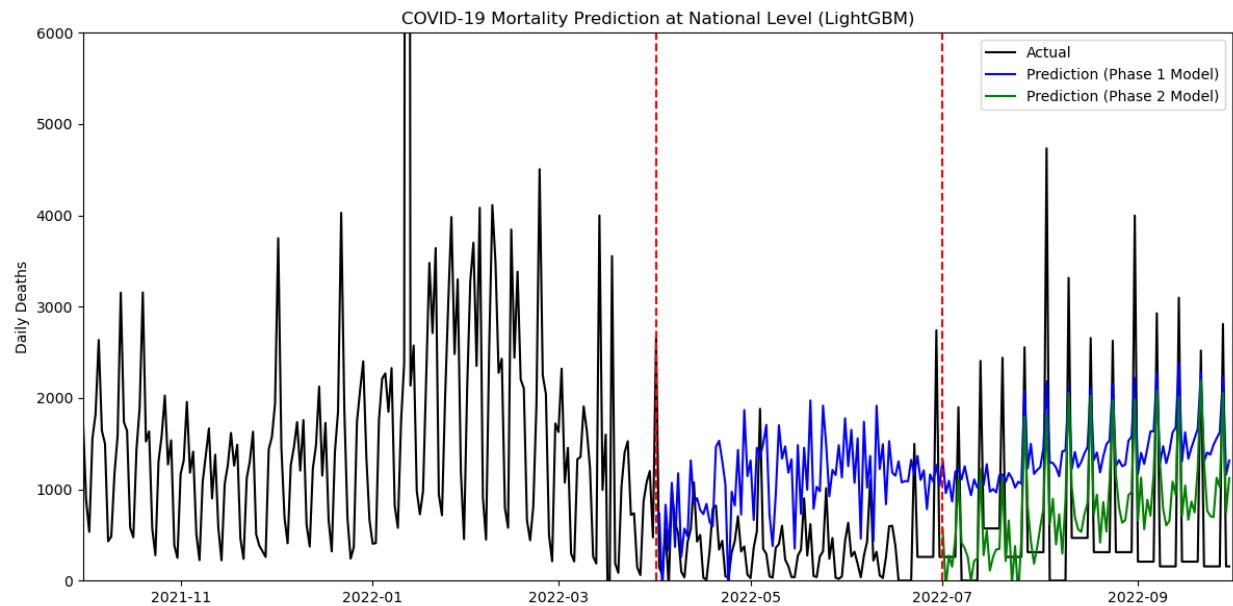


Figure 8. LightGBM Predictions (lag=21, death, state level)

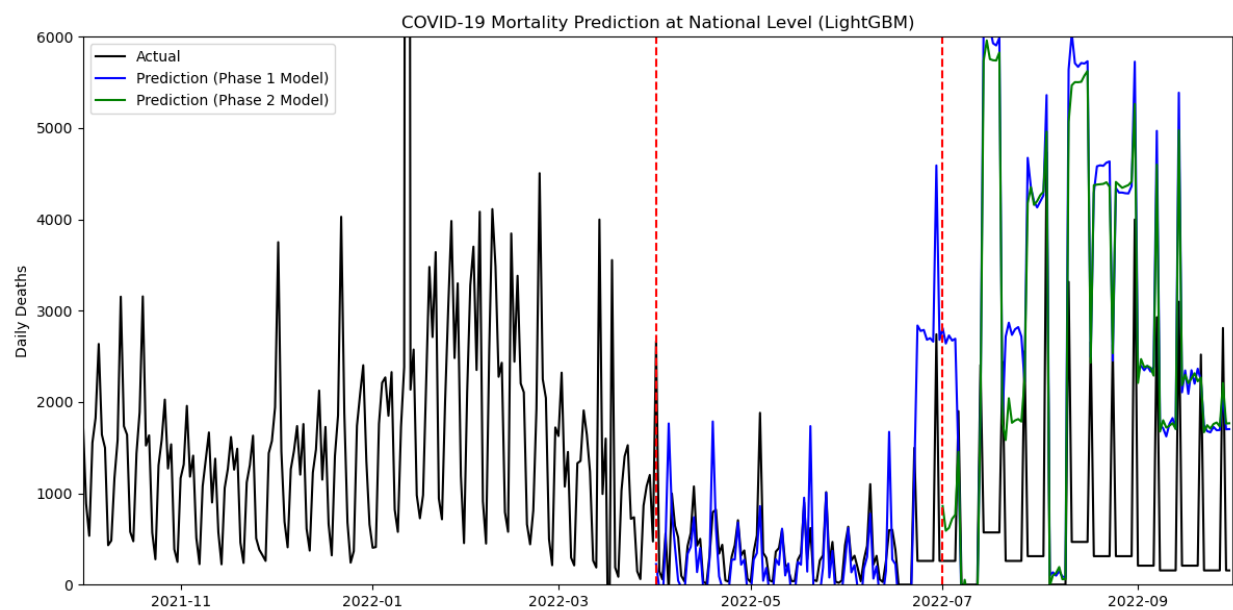


Figure 9. LightGBM Predictions (lag=28, no death, state level)

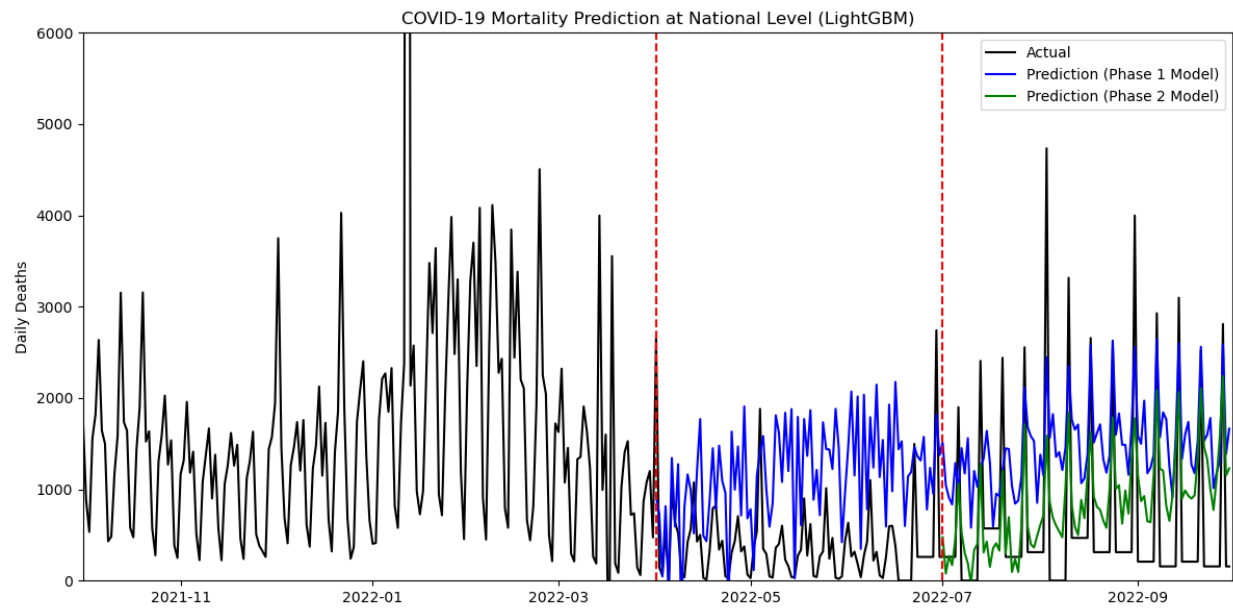


Figure 10. LightGBM Predictions (lag=28, death, state level)

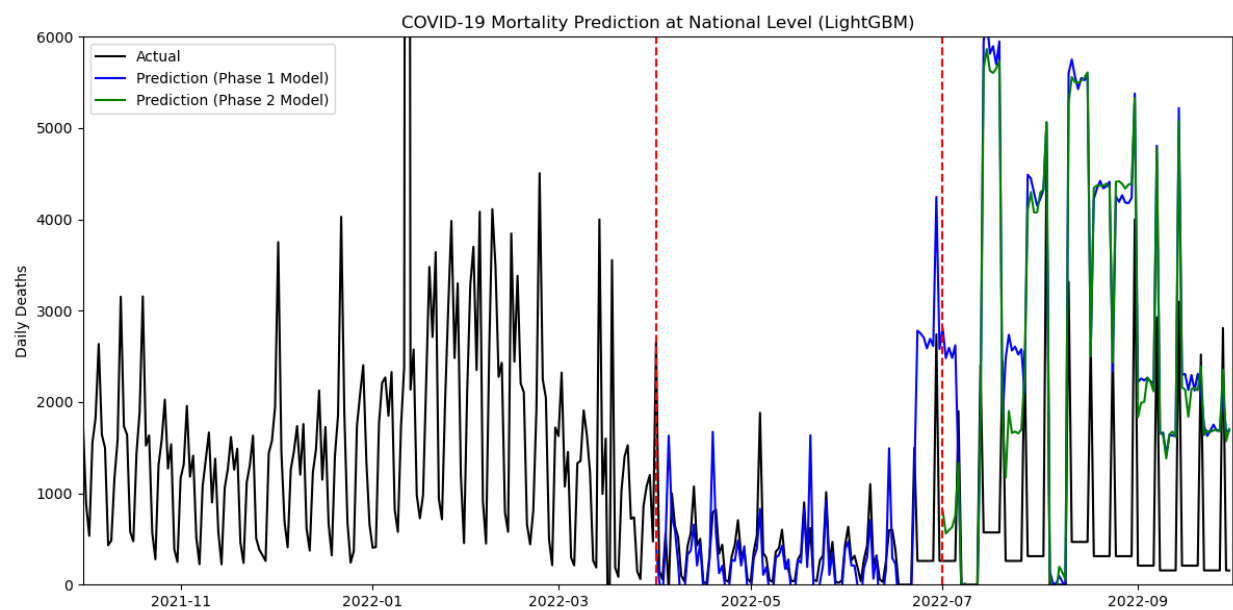


Figure 11. Total Lagged Feature Importances Across All States (Phase 1)

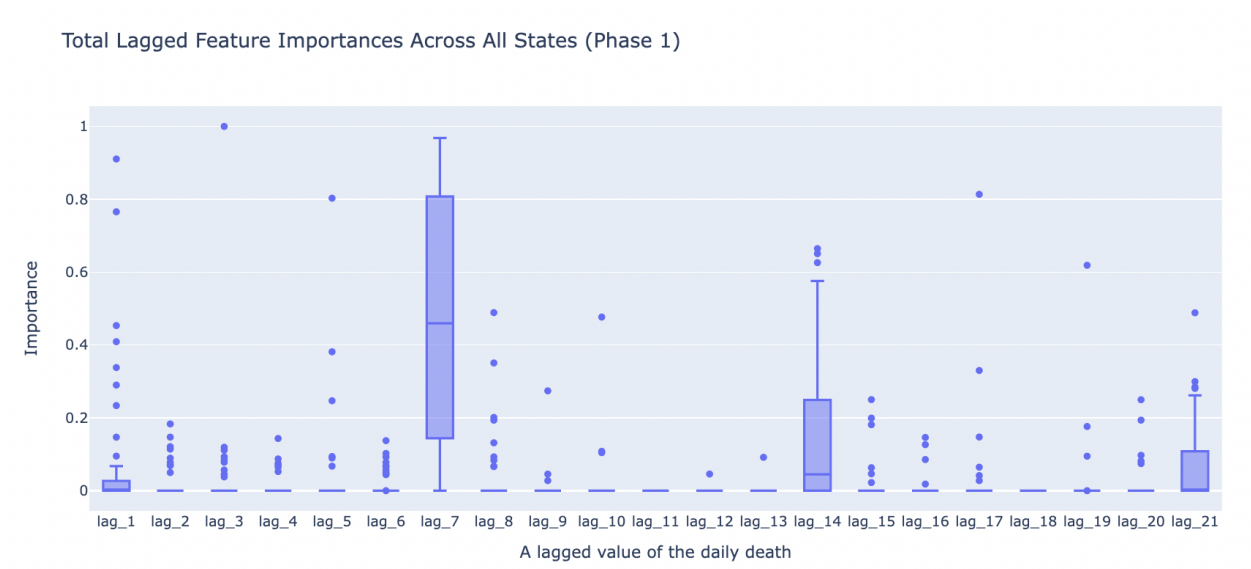


Figure 12. Average Feature Importance of COVID-19 Mortality Prediction

