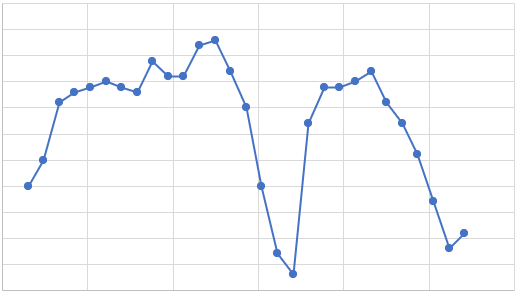
* We hold 15% of the data, and train two models on two data –
* 1. one w/o COVID pattern (x), and
* 2. other with COVID pattern (y))
* We then combine results of these models and try to predict values over next 15% data (c).
* The result is validated as 4ax + 5by = 9c.
* The values of a and b are then obtained by solving above equation.
* We solve to minimize “ (4a/9)x + (5b/9)y – c “.
* We can use genetic algorithms or other optimization methods to solve above problem.
* After identifying best a and b, we retrain the two models on full available datasets, and then combine their results with calculated a and b using, .



* α and β are parameters obtained from products between LSA outputs and timelines lengths.
* are the predictions from Model i.

Data without COVID-19 pattern

Data with COVID-19 pattern

Model 2

Model 1