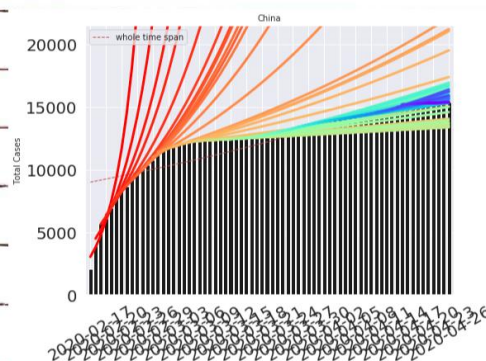


Q.2 Modelling using the data :

Since it is a non-stationary time-series data, we fit the data by sliding a 5 days window across the complete data.

- Hence we obtain different exponential curves for each day.
- The first few fits show strong exponential growth for China. Since China has taken some measures, which has flattened the exponential growth curve.
- The red dotted line is the exponential fit for the whole time series. It can be ~~also~~ observed that this fails when considering whole time-series.



- Non-stationary behaviour by doubling intervals on day-by-day basis: The doubling intervals provide the number of days until the infected population has doubled.

