Part B. Classification (Supervised Learning)

Step 3:

Based on the models produced by the three learning algorithms, our group find some interesting facts. The first is that when the lockdown restriction is cancelled in a particular city, people are more likely to choose to do outdoor activities during the period of festivals. This can be observed through the model. For example, having a picnic with parents or friends at a park and participating in an outdoor yoga class. These types of large gathering will therefore lead to the increase amount of infected people.

Another insight is that Toronto city always has a greater number of people getting infected when compared to other cities. Obviously, it is because Toronto has a base population larger than all other cities in Canada. Furthermore, movement of population is also a cause of infections. Especially when people use any type of transportation such as any public or private vehicle or mode of transport but without wearing masks.

It is also worth to mention that group of people with age over 75 are prone to be infected by the virus when compared with group of people with age under 40 since the older people usually have a very low level of body resistance than that of the younger people. Additionally, the rate of death is high among older people. This will accordingly lead to the situation that as long as people with age over 75 get infected, they will soon be dead because of the multiple organ failure.