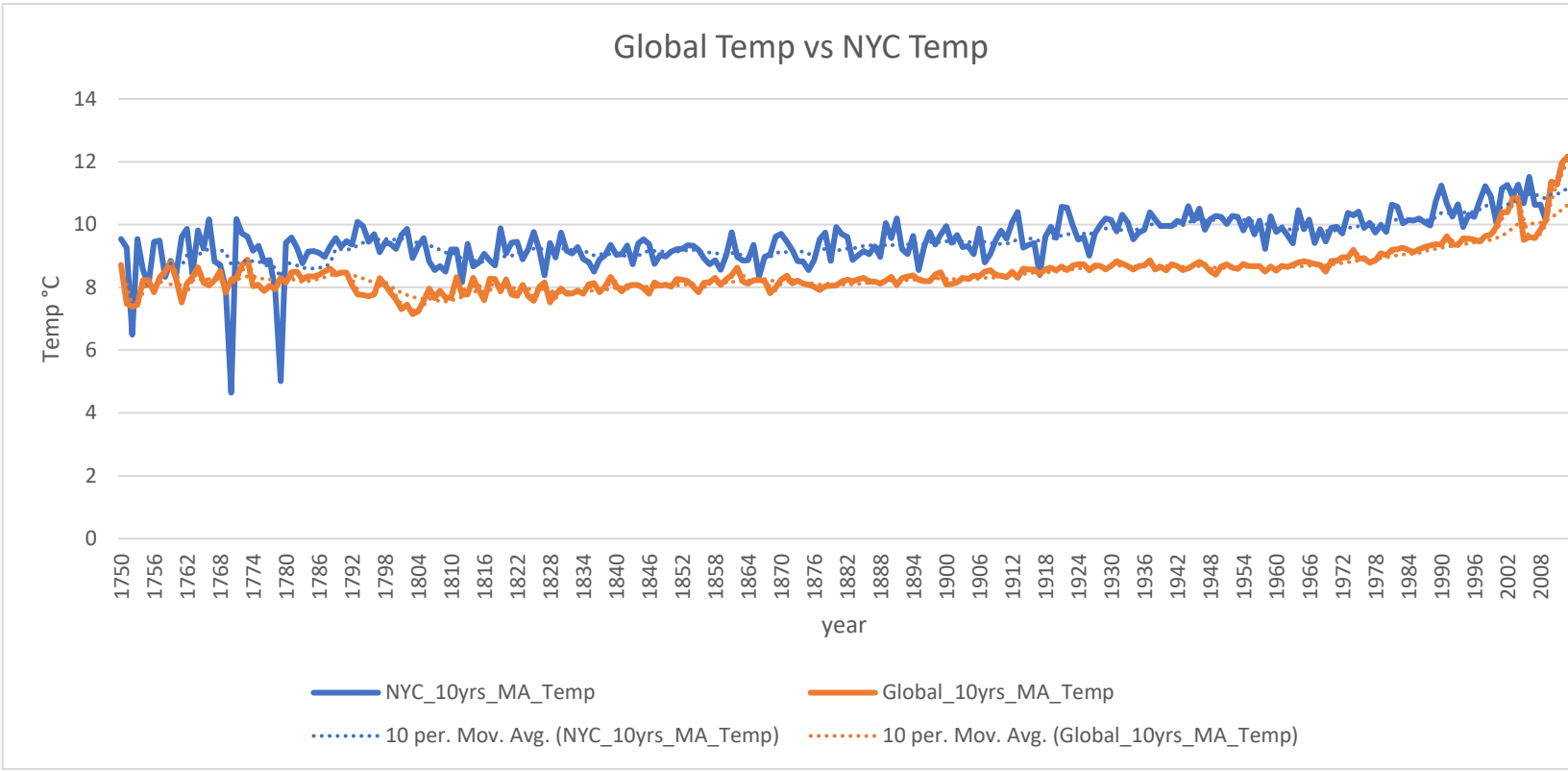
Shakhawat Hassan



[Moving average calculated in the line chart]

According to this chart, as we can see that New York City is hotter than the Global. After taking the moving average between 10 years, NYC's temperature isn't consistent over time as the Global temperature. NYC's temperature is staying between 7 °C and 11 °C except for the year 1768 and 1780 (temp wasn't recorded in 1780). For not having 1780's temp in the datasets, there was a big drop in 1772 and 1780 in NYC. But the global temperature stays consistent over time from 7.5 °C to 8.5 °C until 1970. And then Global temp was started rising.

We also can see that New York City's temperature changes over time. The temperature was between 8 °C and 10 °C from 1750 to 1910. And then climate was started changing from 1920 to 2010 (rising). The temperature is still increasing along with the global temp.

The trend looks like the world is getting hotter. This trend shows the temperature is rising from last hundred years. Now, we can predict that there will be hotter in next few hundred years.

Average of NYC_10yrs_MA_Temp	**Average of Global_10yrs_MA_Temp**
9.46 °C	8.42 °C

For better understanding, I created a pivot table and then I took an avg of my city and global temp. As we can tell by looking at this chart, the average for NYC is 1.04 °C is higher than the global temperature. Which tells us that NYC is hotter than the avg global temperature.