Average temperature in NYC on specific day:

R2 is very low with high SE value.

A screen shot of a graph

Description automatically generated

Yearly average temperature in NYC

R2 is still low

SE is high

The yearly average temperature and on one day are both low R2 values.

The daily average temperature is the most noisy graph as the values varies from -10 to 10.

The graph shows the global warming but with a high SE there is a change that the graph are erroneous.

A graph with blue dots and a red line

Description automatically generated

Yearly average temperature nationaly

R2 is at 72%

SE reduced

With a more cities and data, the SE is much reduced meaning that the graph would be a better representation.

Also R2 value is high at 0.72 . This helps demonstrate the global warming with a reduce margin of error.

For cities in the same region, the results would be more accurate as the temperature variation will be less. I would assume that R2 would be higher.

A graph with blue dots and red line

Description automatically generated

Yearly average temperature national with 5 year moving average

R2 is at 0.92,

SE is at 0.04

With a high R2. our model has a high level of confidence on global warming. The 5-year moving average reduced the noise.

A graph with blue dots and red line

Description automatically generated