Hi everyone,  
  
I go by WickedYoda; I am 38, a husband, and a stay-at-home dad to two teenage boys. In 2015 I was hurt in an accident that left me with chronic pain and medical problems. So, since 2016 I have been at home and not working. I have been in Information Technology since 2002, with certifications from Microsoft, CompTIA, HP, and Dell. I also have my associate degree in Applied Sciences and Information Technology with Networking from DeVry University. Always being a work-from-home dad gave me a new light and plenty of time to finally get the college degree I always wanted. I spend my time between my wife, kids, family, and online family. One of my favorite pastimes has always been server hosting; exploring AWS (Amazon Web Services) and Microsoft Azure allowed me to take things to the next level. So, in my free time, I run web hosting, email, DNS, WordPress, and game servers online. My pet project must be my website "\*ask for it, it's my full name, so I don't post it for privacy\*" and working on a secondary pet project using Nagios and LibreNMS in an AWS EC2 VM environment and having minions at my customer's remote sites. When triggered, I want to use Raspberry Pi4s as minions and have them connect to the AWS site via OpenVPN or maintain a secondary connection.

Now that we have gotten the introduction, I needed to pull my location's temperatures for the last 14 days. As anyone who has ever lived in Louisiana would say, the temperatures around here are crazy. My temperature varied from as low as 19° for the high and as high as 73° within 14 days. My temps are listed below:

 temperature

0            73

1            72

2            57

3            63

4            66

5            66

6            34

7            36

8            30

9            27

10           23

11           19

12           48

13           43

14           45

With those calculated, I determined the mean was 46.8, with a median of 45, a variance of 338.46, and a standard deviation of 18.4.

Mean= 46.8

Median= 45.0

Variance= 338.46

Standard Deviation= 18.4

Describe method

count    15.000000

mean     46.800000

std      18.397205

min      19.000000

25%      32.000000

50%      45.000000

75%      64.500000

max      73.000000

By taking this data and using the matplotlib.pyplot module, I generated a line graph plotting the temperatures over the fourteen days.

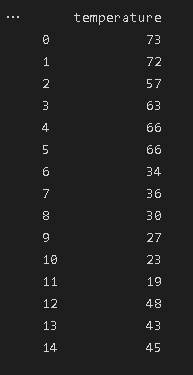
Measures of central tendencies, such as the mean, median, and mode, give you an idea of what is typical or average within a data set. They can be used to describe the center of a distribution of data. Measures of variability, such as range, interquartile range, variance, and standard deviation, give you an idea of how spread out the data is. They can be used to describe the spread or dispersion of a distribution of data.

By analyzing both measures of central tendency and variability, you can better understand data distribution characteristics. For example, if a data set has a high mean and a low standard deviation, the data is likely concentrated around the mean, with most data points being relatively close to the mean. On the other hand, if a data set has a low mean and a high standard deviation, the data is likely more spread out, with some data points being relatively far from the mean.

When comparing my data to Zion, you will find that Zion's data range from around 10° to about 35°. At the same time, my temperatures ranged from about 35° to above 60°. You can see the apparent difference in the box plot graph between the two locations where my minimum is close to their maximum.

Daily maximum temperature

73, 72, 57, 63, 66, 66, 34, 36, 30, 27, 23, 19, 48, 43



Text

Description automatically generated

Chart, line chart

Description automatically generatedChart, box and whisker chart

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