| 0 2010-06-01 1 2010-07-01 2 2010-08-01 3 2010-09-01 4 2010-10-01 | Tesla dataframe that we created TSLA_USD_CLOSE 3 | | |
|--|--|--|---|
| 119 2020-05-01 120 2020-06-01 121 2020-07-01 122 2020-08-01 123 2020-09-01 124 rows × 3 columns From the table, we can dataframe looks like, let | 16 167.000000 17 215.962006 24 286.152008 23 498.320007 31 407.339996 see different types of information like the rest move on to the next one. | onths that this data is based on, Tesla's web search index, and Tesla's closing price at the end of each res | spective month. Now that we know v |
| 0 2004-01 1 2004-02 2 2004-03 3 2004-04 4 2004-05 176 2018-09 177 2018-10 178 2018-11 179 2018-12 180 2019-01 181 rows × 3 columns | ### SEARCH UNRATE 34 5.7 33 5.6 25 5.8 29 5.6 23 5.6 14 3.7 15 3.8 16 3.7 17 3.9 21 4.0 months, search index, and unemployment | te in the dataframe. | |
| MONTH BTC_NEW 0 2014-09 1 2014-10 2 2014-11 3 2014-12 4 2015-01 68 2020-05 69 2020-06 | 5 4 4 4 5 22 13 | at our price data | |
| 1 2014-09-18 42 2 2014-09-19 39 3 2014-09-20 40 4 2014-09-21 39 2199 2020-09-24 1074 2200 2020-09-25 1070 2201 2020-09-26 1075 | 2.290039 2.123255e+10 | | |
| 2203 2020-09-28 1091 2204 rows × 3 columns These two dataframes p We can see from our Data clean Checking for Miss Capacita Clean | 2.536133 2.122653e+10 provide us with various data like search income ataFrames that Google's search interest ratue of 50 means that the search term is has earch volume data - Interesting right? Per briefly examining all of our dataframes, we be saing Values | x, closing price, and volume. Keep in mind that the indices for both dataframes are different. ges between 0 and 100. Specifically, the number represents search interest relative to the highest point. As popular compared to its peak, and even lower numbers represent weak search popularity compared to ewill do some work on cleaning up this data. | peak results. This is a scaled, norn |
| You might be asking, who clean enough for our new the original dataframe, is the result is True, then we have the in mathematical operapproach and combine print(f'Missing values for Missing values for Missing values for Missing values for Hey look at that, no missing values for the missing values | and then chain it together with the any only do we need to chain so many different reds. Using the first option, the result is a 3 out the resulting data values would be booked can further investigate, otherwise we share the erations, order matters! As we have learned functions in a more meaningful way. I quick the alues for Tesla?: {df_tesla.isnultialues for BTC Search?: {df_btc_search?: {df_btc_search?: False BTC Search?: False Story was a sing values in our each of our above three story was a sing values in our each of our above three story was a sing values in our each of our above three story was a sing values in our each of our above three story was a sing values in our each of our above three story. | I from this little investigation, we can't just chain random functions together that we think will work. Insteady discovered this to be particularly true when working with data using Pandas library).values.any()}') null().values.any()}') ch.isnull().values.any()}') | e.isnull(), neither of the results ns. With the second option, we woul e through a single True or False |
| print(f'Missing values for Missing values for Luckily, there is an easy print(f'Number of Mumber of missing | BTC price?: {df_btc_price} BTC price?: True way for us to check how many missing values: {df_btc_price.CLC} values: 2204 all of the missing values by using the one instead of creating a who new data sha(inplace=True) | ues are present by using the .count() method: E.isnull().count()}') Dpna() function which returns a new Series with the removed data. However, using the argument inpl | ace=True lets us replace the old |
| To prepare our data vising graph that we can appropriate the simply, we just have to df_btc_price.DATE df_tesla.MONTH = df_unemployment.Month = df_btc_search.MONTH = df_btc_sea | eciate. use Pandas to_datetime() method o = pd.to_datetime(df_btc_price.DAT od.to_datetime(df_tesla.MONTH) ONTH = pd.to_datetime(df_unemployn TH = pd.to_datetime(df_btc_search. a type conversion worked. Let's take a loo | nt.MONTH) | |
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| What we have now are small outliers or noise in So, lets use the .resa on="DATE" which tell ~30 days of data. Refer to the documenta df_btc_price_mont display(df_btc_price_mont display(df_btc_price_mont display(df_btc_price_mont display) df_btc_price_mont df_btc_price_mont display(df_btc_price_mont display) df_btc_price_mont df_btc_pri | a bunch of daily values. Instead, I think a In the data will be muted out, which allows imple() function to correctly turn our dails the function that the column that we want tion for more info about .resample(): Inly = df_btc_price.resample("M", coice_monthly) | data into monthly data. For our first argument, we have "M", this tells the function that we want to convert to change is the DATE column. The mean() function is chained at the end, so that our new monthly valued and as .resample() documentation | the timeframe into months. Next we |
| 2015-01-31 248.78254 2020-05-31 9263.15174 2020-06-30 9489.22722 2020-07-31 9589.89973 2020-08-31 11667.27755 2020-09-30 10655.70222 73 rows × 2 columns Data Visual | 14 2.169711e+10 29 1.760688e+10 72 2.290423e+10 18 3.039781e+10 | | |
| years = mdates.Years_fmt = mdates.Mayears_fmt = mdates Here we created locator Tesla Stock Price Now, let's jump right into plt.figure(figsize plt.xticks(rotatio plt.title("Tesla National Content of the content o | enthLocator() s.DateFormatter("%Y") r for ticks on the time axis. This makes it enterpolates the enterpolate of the following the enterpolates are enterpolated as the enterpolat | fontsize=10) | |
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