

Preprocess Dataset

Notebook to select the CPI index attribute and convert the data to a normal pandas dataframe to be digested

```
In [1]: import pandas as pd  
import os
```

```
In [2]: metadata = pd.read_csv(os.path.join('CPITimeSeries', 'Metadata_CPI_09-22-  
metadata
```

Out [2]:

	Dataset Name	Dataset Code	Country Name	Country Code	Indicator Name	Indicator Code	Metadata Attribute
0	Consumer Price Index (CPI)	CPI	NaN	NaN	NaN	NaN	Category
1	Consumer Price Index (CPI)	CPI	NaN	NaN	NaN	NaN	Dataset
2	Consumer Price Index (CPI)	CPI	NaN	NaN	NaN	NaN	Definition
3	Consumer Price Index (CPI)	CPI	NaN	NaN	NaN	NaN	Frequency
4	Consumer Price Index (CPI)	CPI	NaN	NaN	NaN	NaN	Geographic Coverage
...
13313	Consumer Price Index (CPI)	CPI	Zimbabwe	698.0	Restaurants and hotels	PCPIRE_IX	Common Reference Period
13314	Consumer Price Index (CPI)	CPI	Zimbabwe	698.0	Restaurants and hotels	PCPIRE_IX	Common Reference Period
13315	Consumer Price Index (CPI)	CPI	Zimbabwe	698.0	Transport	PCPIT_IX	Common Reference Period
13316	Consumer Price Index (CPI)	CPI	Zimbabwe	698.0	Transport	PCPIT_IX	Common Reference Period
13317	Consumer Price Index (CPI)	CPI	Zimbabwe	698.0	Transport	PCPIT_IX	Common Reference Period

13318 rows × 9 columns

```
In [3]: data = pd.read_csv(os.path.join('CPITimeSeries', 'CPITimeSeries.csv'))
data.columns
```

```

/var/folders/7x/f99kq48n5_7cdmmy6sz268nw0000gn/T/ipykernel_31617/196718674
6.py:1: DtypeWarning: Columns (5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,
21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,4
5,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,
70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,9
4,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,1
14,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,13
2,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,
151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,16
9,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,
188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,20
6,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,
225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,24
3,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,
262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,28
0,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,
299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,31
7,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,
336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,35
4,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,
373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,39
1,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,
410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,42
8,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,
447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,46
5,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,
484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,50
2,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,
521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,53
9,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,
558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,57
6,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,
595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,61
3,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,
632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,65
0,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,
669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,68
7,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,
706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,72
4,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,
743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,76
1,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,
780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,79
8,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,
817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,83
5,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,
854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,87
2,873,874,875,876,877) have mixed types. Specify dtype option on import or
set low_memory=False.

```

```
data = pd.read_csv(os.path.join('CPITimeSeries', 'CPITimeSeries.csv'))
```

```

Out[3]: Index(['Country Name', 'Country Code', 'Indicator Name', 'Indicator Cod
e',
              'Attribute', '1950M1', '1950M2', '1950M3', '1950M4', '1950M5',
              ...
              '2022M1', '2022M2', '2022M3', '2022M4', '2022M5', '2022M6', '2022
M7',
              '2022M8', 'Common Reference Period', 'Unnamed: 878'],
              dtype='object', length=879)

```

```
In [4]: indicator = 'PCPI_IX'
```

```
In [5]: indicator_data = pd.DataFrame(data.loc[(data['Indicator Code'] == indicat
```

```
In [6]: indicator_data = indicator_data.drop(['Country Code', 'Indicator Name', '
```

```
In [7]: indicator_data
```

```
Out[7]:
```

	Country Name	1950M1	1950M2	1950M3	1950M4	1950M5	1950M6	1950M7
17	Brazil	NaN	NaN	NaN	NaN	NaN	NaN	NaN
30	France	NaN	NaN	NaN	NaN	NaN	NaN	NaN
104	Bulgaria	NaN	NaN	NaN	NaN	NaN	NaN	NaN
154	Honduras	NaN	NaN	NaN	NaN	NaN	NaN	NaN
173	Colombia	NaN	NaN	NaN	NaN	NaN	NaN	NaN
...
14570	Trinidad and Tobago	NaN	NaN	NaN	NaN	NaN	NaN	NaN
14576	Suriname	NaN	NaN	NaN	NaN	NaN	NaN	NaN
14591	Tajikistan, Rep. of	NaN	NaN	NaN	NaN	NaN	NaN	NaN
14826	Uzbekistan, Rep. of	NaN	NaN	NaN	NaN	NaN	NaN	NaN
15242	Thailand	NaN	NaN	NaN	NaN	NaN	NaN	NaN

190 rows × 873 columns

```
In [8]: indicator_data = indicator_data.T
```

```
In [9]: indicator_data
```

Out [9]:

	17	30		104	154	173	198	241
--	----	----	--	-----	-----	-----	-----	-----

Country Name	Brazil	France		Bulgaria	Honduras	Colombia	Canada	Côte d'Ivoire
1950M1	NaN	NaN		NaN	NaN	NaN	12.1	NaN
1950M2	NaN	NaN		NaN	NaN	NaN	12.2	NaN
1950M3	NaN	NaN		NaN	NaN	NaN	12.3	NaN
1950M4	NaN	NaN		NaN	NaN	NaN	12.3	NaN
...
2022M4	6382.88	110.97	8331.52722236692		384.2	117.7089	149.8	114.7
2022M5	6412.88	111.72	8432.65279081599		387.6	118.7032	151.9	114.9
2022M6	6455.85	112.55	8506.69398844988		392.7	119.3053	152.9	117.4
2022M7	6411.95	112.87	8601.91208943529		396.2	120.2736	153.1	117.4
2022M8	NaN	113.29	8702.17132815588		396.1	121.5025	NaN	NaN

873 rows x 190 columns

```
In [10]: indicator_data.columns = indicator_data.iloc[0]
indicator_data = indicator_data[1:]
```

```
In [11]: indicator_data
```

Out [11]:

Country Name	Brazil	France	Bulgaria	Honduras	Colombia	Canada	Ci d'Ivo
1950M1	NaN	NaN	NaN	NaN	NaN	12.1	N
1950M2	NaN	NaN	NaN	NaN	NaN	12.2	N
1950M3	NaN	NaN	NaN	NaN	NaN	12.3	N
1950M4	NaN	NaN	NaN	NaN	NaN	12.3	N
1950M5	NaN	NaN	NaN	NaN	NaN	12.3	N
...
2022M4	6382.88	110.97	8331.52722236692	384.2	117.7089	149.8	11
2022M5	6412.88	111.72	8432.65279081599	387.6	118.7032	151.9	11
2022M6	6455.85	112.55	8506.69398844988	392.7	119.3053	152.9	11
2022M7	6411.95	112.87	8601.91208943529	396.2	120.2736	153.1	11
2022M8	NaN	113.29	8702.17132815588	396.1	121.5025	NaN	N

872 rows x 190 columns

In [12]: indicator_data

Out [12]:

Country Name	Brazil	France	Bulgaria	Honduras	Colombia	Canada	Ci d'Ivo
1950M1	NaN	NaN	NaN	NaN	NaN	12.1	N
1950M2	NaN	NaN	NaN	NaN	NaN	12.2	N
1950M3	NaN	NaN	NaN	NaN	NaN	12.3	N
1950M4	NaN	NaN	NaN	NaN	NaN	12.3	N
1950M5	NaN	NaN	NaN	NaN	NaN	12.3	N
...
2022M4	6382.88	110.97	8331.52722236692	384.2	117.7089	149.8	11
2022M5	6412.88	111.72	8432.65279081599	387.6	118.7032	151.9	11
2022M6	6455.85	112.55	8506.69398844988	392.7	119.3053	152.9	11
2022M7	6411.95	112.87	8601.91208943529	396.2	120.2736	153.1	11
2022M8	NaN	113.29	8702.17132815588	396.1	121.5025	NaN	N

872 rows x 190 columns

In [13]: time = pd.Series(pd.date_range(start='1950/01/01', end='2022/08/01', freq=time

```
Out [13]: 0      1950-01-01
          1      1950-02-01
          2      1950-03-01
          3      1950-04-01
          4      1950-05-01
          ...
          867    2022-04-01
          868    2022-05-01
          869    2022-06-01
          870    2022-07-01
          871    2022-08-01
          Name: Date, Length: 872, dtype: datetime64[ns]
```

```
In [14]: indicator_data.index = time
```

```
In [15]: indicator_data
```

Out [15]:

Country Name	Brazil	France	Bulgaria	Honduras	Colombia	Canada	Côte d'Ivoire
Date							
1950-01-01	NaN	NaN	NaN	NaN	NaN	12.1	NaN
1950-02-01	NaN	NaN	NaN	NaN	NaN	12.2	NaN
1950-03-01	NaN	NaN	NaN	NaN	NaN	12.3	NaN
1950-04-01	NaN	NaN	NaN	NaN	NaN	12.3	NaN
1950-05-01	NaN	NaN	NaN	NaN	NaN	12.3	NaN
...
2022-04-01	6382.88	110.97	8331.52722236692	384.2	117.7089	149.8	11.4
2022-05-01	6412.88	111.72	8432.65279081599	387.6	118.7032	151.9	11.4
2022-06-01	6455.85	112.55	8506.69398844988	392.7	119.3053	152.9	11.4
2022-07-01	6411.95	112.87	8601.91208943529	396.2	120.2736	153.1	11.4
2022-08-01	NaN	113.29	8702.17132815588	396.1	121.5025	NaN	NaN

872 rows x 190 columns

```
In [16]: indicator_data.columns
```

```
Out[16]: Index(['Brazil', 'France', 'Bulgaria', 'Honduras', 'Colombia', 'Canada',  
              'Côte d'Ivoire', 'Finland', 'Germany', 'China, P.R.: Mainland',  
              ...  
              'Uruguay', 'Venezuela, Rep. Bolivariana de', 'Syrian Arab Rep.',  
              'Yemen, Rep. of', 'Timor-Leste, Dem. Rep. of', 'Trinidad and Toba  
go',  
              'Suriname', 'Tajikistan, Rep. of', 'Uzbekistan, Rep. of', 'Thaila  
nd'],  
            dtype='object', name='Country Name', length=190)
```

```
In [17]: for col in indicator_data.columns:  
         indicator_data[col] = indicator_data[col].astype(float)
```



```

/var/folders/7x/f99kq48n5_7cdmmy6sz268nw0000gn/T/ipykernel_31617/139603982
0.py:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

```

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```

indicator_data[col] = indicator_data[col].astype(float)
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indicator_data[col] = indicator_data[col].astype(float)
/var/folders/7x/f99kq48n5_7cdmmy6sz268nw0000gn/T/ipykernel_31617/1396039820.py:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
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```
indicator_data[col] = indicator_data[col].astype(float)
```

In [18]: `indicator_data`

Out [18]:

Country Name	Brazil	France	Bulgaria	Honduras	Colombia	Canada	Côte d'Ivoire	Finland
Date								
1950-01-01	NaN	NaN	NaN	NaN	NaN	12.1	NaN	NaN
1950-02-01	NaN	NaN	NaN	NaN	NaN	12.2	NaN	NaN
1950-03-01	NaN	NaN	NaN	NaN	NaN	12.3	NaN	NaN
1950-04-01	NaN	NaN	NaN	NaN	NaN	12.3	NaN	NaN
1950-05-01	NaN	NaN	NaN	NaN	NaN	12.3	NaN	NaN
...
2022-04-01	6382.88	110.97	8331.527222	384.2	117.7089	149.8	114.7	114.7
2022-05-01	6412.88	111.72	8432.652791	387.6	118.7032	151.9	114.9	114.9
2022-06-01	6455.85	112.55	8506.693988	392.7	119.3053	152.9	117.4	117.4
2022-07-01	6411.95	112.87	8601.912089	396.2	120.2736	153.1	117.4	117.4
2022-08-01	NaN	113.29	8702.171328	396.1	121.5025	NaN	NaN	NaN

872 rows x 190 columns

```
In [19]: indicator_data.to_csv(os.path.join('CPITimeSeries', 'time_series_data.csv'))
```