

TimeSeriesUsingPlotly

March 20, 2024

0.1 Time Series using Plotly Libraries

```
[1]: import pandas as pd
import plotly.express as px

# reads the CSV file named 'CUR_DLR_INR.csv' into a Pandas DataFrame called
↳ 'dollar_conv'
dollar_conv = pd.read_csv('CUR_DLR_INR.csv')
print(dollar_conv)

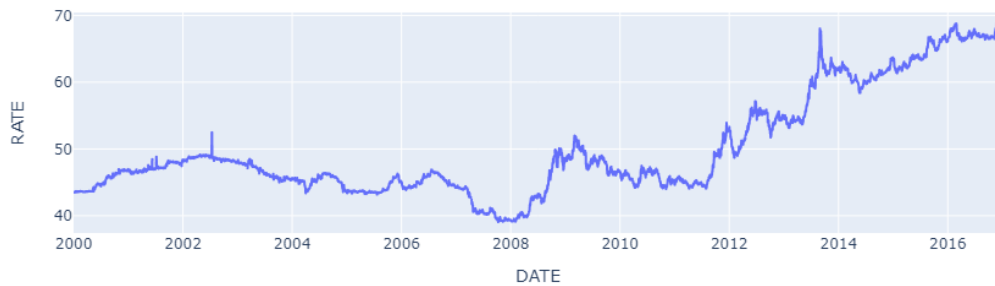
# px.line() creates a line plot using Plotly Express
fig = px.line(dollar_conv, x = 'DATE', y = 'RATE', title = 'Dollar Vs Rupee')

# displays the line plot
fig.show()
```

	DATE	RATE
0	2016-12-31	67.966900
1	2016-12-30	67.972800
2	2016-12-29	67.945000
3	2016-12-28	68.228900
4	2016-12-27	67.996500
...
6203	2000-01-05	43.532065
6204	2000-01-04	43.532065
6205	2000-01-03	43.532065
6206	2000-01-02	43.494130
6207	2000-01-01	43.494130

[6208 rows x 2 columns]

Dollar Vs Rupee



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[2]: import pandas as pd
import plotly.express as px

runs_scored = pd.read_csv('AusVsInd.csv')
print(runs_scored)

# DataFrame is a 2-dimensional data structure with columns of potentially
# different types.
# It can be thought of as a table or a spreadsheet
fig = px.line(runs_scored, x = 'Overs', y = ['AUS', 'IND'], markers = True)

fig.update_layout(title = 'Australia Vs India ODI Match',
                  xaxis_title = 'OVERS',
                  yaxis_title = 'RUNS',
                  legend_title = 'Country')

fig.show()
```

	Overs	AUS_RPO	IND_RPO	AUS	IND
0	1	1	2.0	1	2.0
1	2	4	0.0	5	2.0
2	3	1	3.0	6	5.0
3	4	5	5.0	11	10.0
4	5	5	2.0	16	12.0
5	6	0	6.0	16	18.0
6	7	13	2.0	29	20.0
7	8	3	1.0	32	21.0
8	9	4	5.0	36	26.0
9	10	7	1.0	43	27.0
10	11	8	6.0	51	33.0
11	12	3	2.0	54	35.0
12	13	5	3.0	59	38.0

13	14	7	3.0	66	41.0
14	15	5	8.0	71	49.0
15	16	2	3.0	73	52.0
16	17	1	4.0	74	56.0
17	18	2	13.0	76	69.0
18	19	1	4.0	77	73.0
19	20	8	7.0	85	80.0
20	21	3	2.0	88	82.0
21	22	1	5.0	89	87.0
22	23	4	3.0	93	90.0
23	24	5	2.0	98	92.0
24	25	4	5.0	102	97.0
25	26	2	3.0	104	100.0
26	27	6	5.0	110	105.0
27	28	2	11.0	112	116.0
28	29	6	3.0	118	119.0
29	30	1	1.0	119	120.0
30	31	4	4.0	123	124.0
31	32	7	8.0	130	132.0
32	33	1	7.0	131	139.0
33	34	3	7.0	134	146.0
34	35	4	5.0	138	151.0
35	36	2	8.0	140	159.0
36	37	0	8.0	140	167.0
37	38	2	1.0	142	168.0
38	39	3	4.0	145	172.0
39	40	11	10.0	156	182.0
40	41	4	13.0	160	195.0
41	42	4	6.0	164	201.0
42	43	4	NaN	168	NaN
43	44	0	NaN	168	NaN
44	45	4	NaN	172	NaN
45	46	3	NaN	175	NaN
46	47	8	NaN	183	NaN
47	48	5	NaN	188	NaN
48	49	7	NaN	195	NaN
49	50	4	NaN	199	NaN

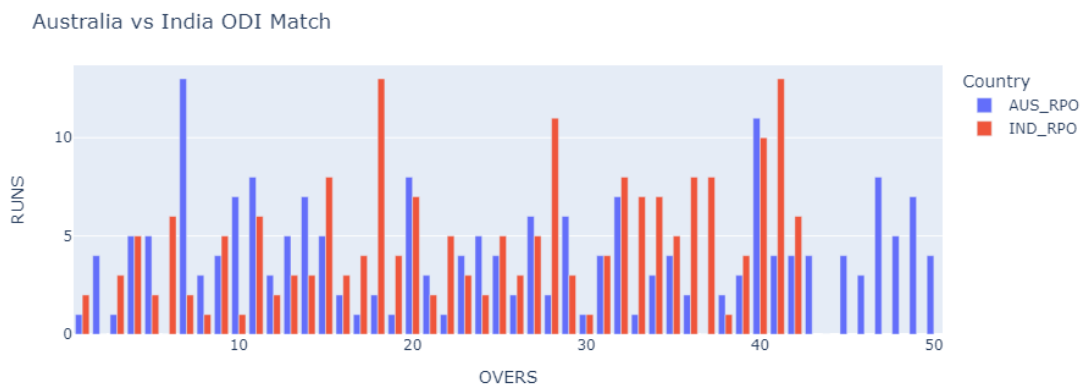


```
[3]: import pandas as pd
import plotly.express as px

runs_scored = pd.read_csv('AusVsInd.csv')

fig = px.bar(runs_scored, x = 'Overs', y = ['AUS_RPO', 'IND_RPO'], barmode = 'group',
            title = 'Australia vs India ODI Match',
            axis_title = 'OVERS',
            yaxis_title = 'RUNS',
            legend_title = 'Country')

fig.show()
```



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