

Plots

December 19, 2020

VERİSETİ ANALİZ NOTEBOOK'U

```
[8]: import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns
```

```
[9]: #american ecommerce data
dataset_A = pd.read_excel("ecomretailfixed.xls")
dataset_turkey = pd.read_excel("TurkeyData3.xlsx")

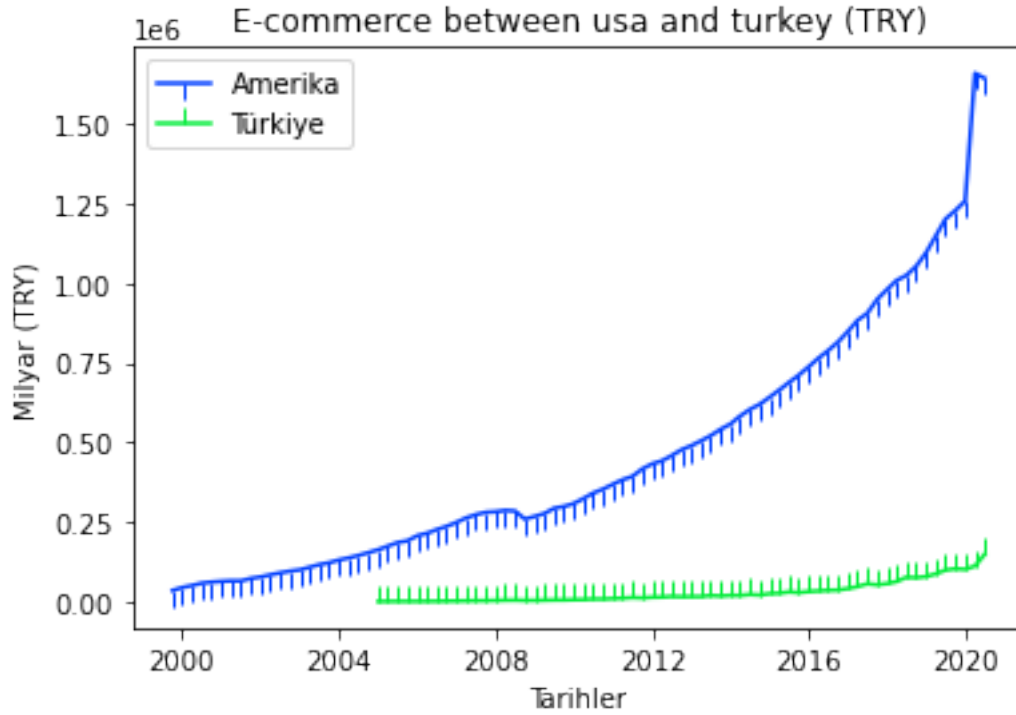
date_A = dataset_A["observation_date"]
ecomsa_A = dataset_A["ECOMSA"]
to_tl = []
for price in ecomsa_A:
    to_tl.append(price*7.84)

#Türkiye ecommerce data
date_E = dataset_turkey["observation_date"]
ecomsa_E = dataset_turkey["ECOMSA"]
```

```
[10]: plt.style.use('seaborn-bright')
plt.plot(date_A,to_tl,label="Amerika",marker=3)
plt.plot(date_E,ecomsa_E,label="Türkiye",marker=2)

plt.title("E-commerce between usa and turkey (TRY)")
plt.xlabel("Tarihler")
plt.ylabel("Milyar (TRY)")

plt.legend()
plt.show()
#plt.savefig('Matplotlib_save_plot.png')
print(dataset_turkey)
print(to_tl)
```



	observation_date	ECOMSA
0	2005-01-01	600.54
1	2005-04-01	768.61
2	2005-07-01	934.97
3	2005-10-01	886.18
4	2006-01-01	880.11
..
58	2019-07-01	99103.90
59	2019-10-01	103265.11
60	2020-01-01	101339.37
61	2020-04-01	111949.08
62	2020-07-01	148634.52

[63 rows x 2 columns]

[35091.84, 44617.44, 50685.6, 58164.96, 61465.6, 63778.4, 65354.24, 65346.4, 73021.76, 77647.36, 84217.28, 90497.12, 95891.04, 99865.92, 107980.31999999999, 116290.72, 122209.92, 130904.48, 137348.96, 145087.04, 153907.04, 163079.84, 174306.72, 185439.52, 191013.76, 207109.28, 214557.28, 226121.28, 236281.91999999998, 248747.52, 262828.16, 273153.44, 280546.56, 282373.27999999997, 286269.76, 284529.27999999997, 259049.28, 267594.88, 276610.88, 293231.68, 298782.4, 308025.76, 323815.52, 340836.16, 353388.0, 368636.8, 382709.6, 393097.6, 416484.32, 432328.96, 441885.92, 458240.16, 476789.6, 489670.72, 504762.72, 521022.88, 540999.2, 557486.72, 582433.6, 603233.12, 619548.16, 641602.08, 664079.36, 687991.36, 710986.08, 737406.88,

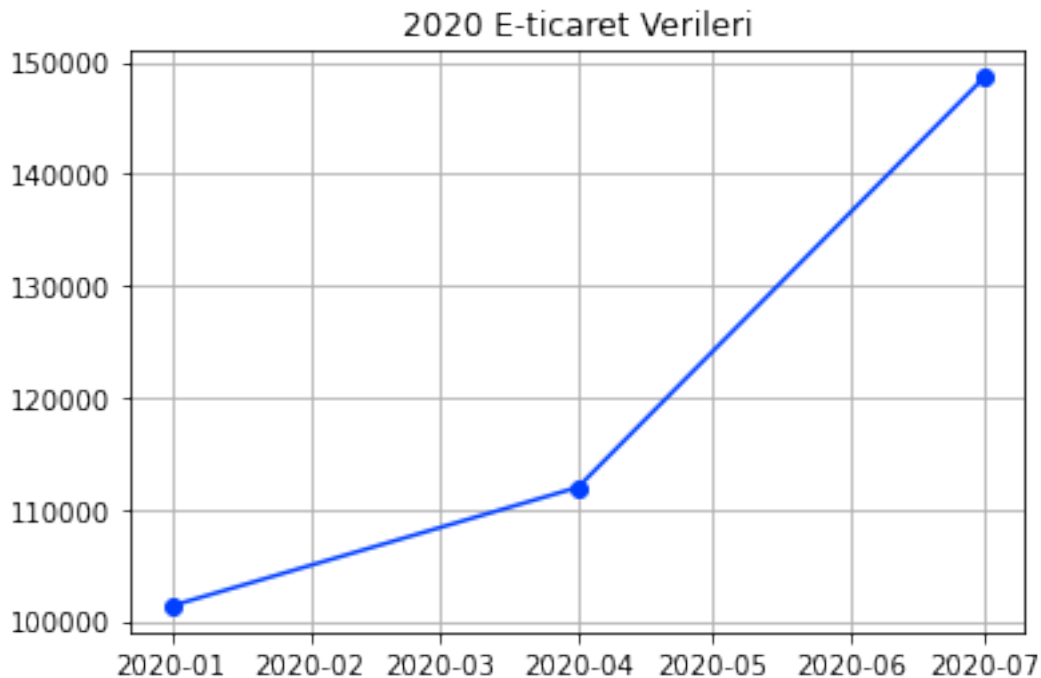
```
764078.5599999999, 788068.96, 814983.6799999999, 847950.88, 883128.96,  
904884.96, 948788.96, 979498.24, 1008349.44, 1024100.0, 1052841.44, 1095349.92,  
1147728.96, 1201276.16, 1227595.04, 1257645.76, 1658904.8, 1642738.72]
```

```
[11]: turkey_2018 = dataset_turkey["ECOMSA"][28:32]  
total_2018=0  
for price in turkey_2018:  
    total_2018 += price
```

```
[12]: turkey_2019 = dataset_turkey["ECOMSA"][32:36]  
total_2019=0  
for price2 in turkey_2019:  
    total_2019 += price2  
df = pd.DataFrame([[total_2018,2018],[total_2019,2019]],columns=list("AB"))
```

```
[23]: #2020 verileri  
y_pos = date_E[-3:]  
performance = ecomsa_E[-3:]  
plt.grid(True)  
plt.title("2020 E-ticaret Verileri")  
plt.plot(y_pos, performance,marker="o")
```

```
[23]: [<matplotlib.lines.Line2D at 0x7fb6be7be3a0>]
```



```
[13]: import plotly.express as px
import plotly.graph_objects as go

labels = df["B"]
values = df["A"]

fig = go.Figure(data=[go.Pie(labels=labels, values=values, title="Türkiye_
↪2018-2019 E-Ticaret Hacmi", textinfo='label+percent',
insidetextorientation='radial'
)])

fig.show()
```