At first I go through by exploratory analysis of the data. Here is the correlation of the indicators:

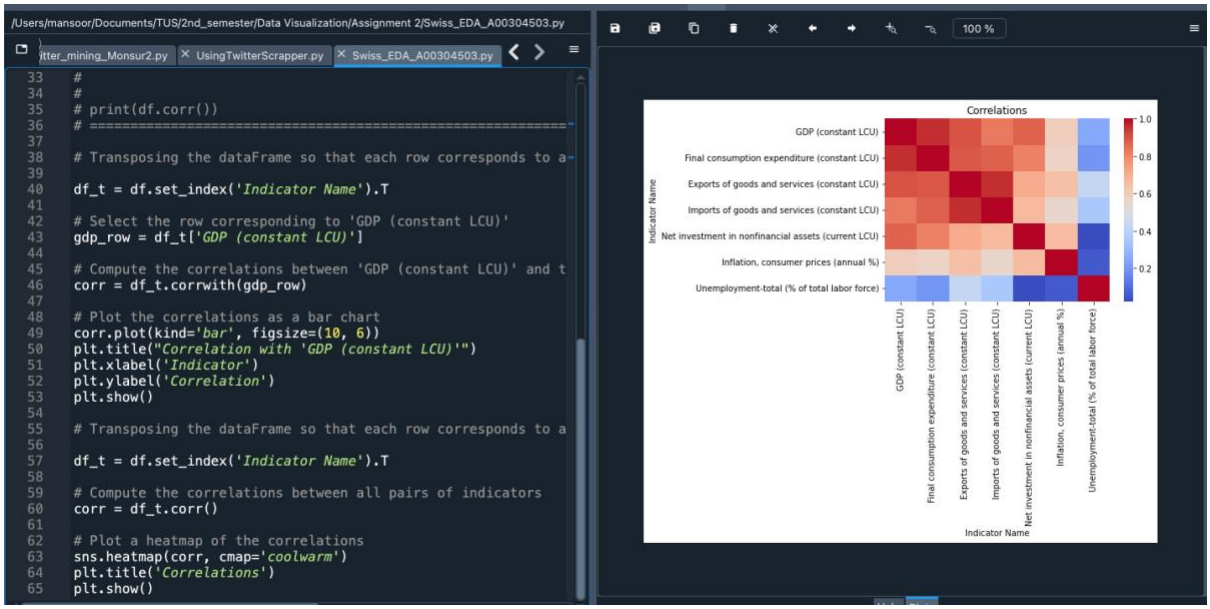

Fig: 2

Then using “ploty”, “Plotly Dash” , I have done all the visualizations. A full snapshot

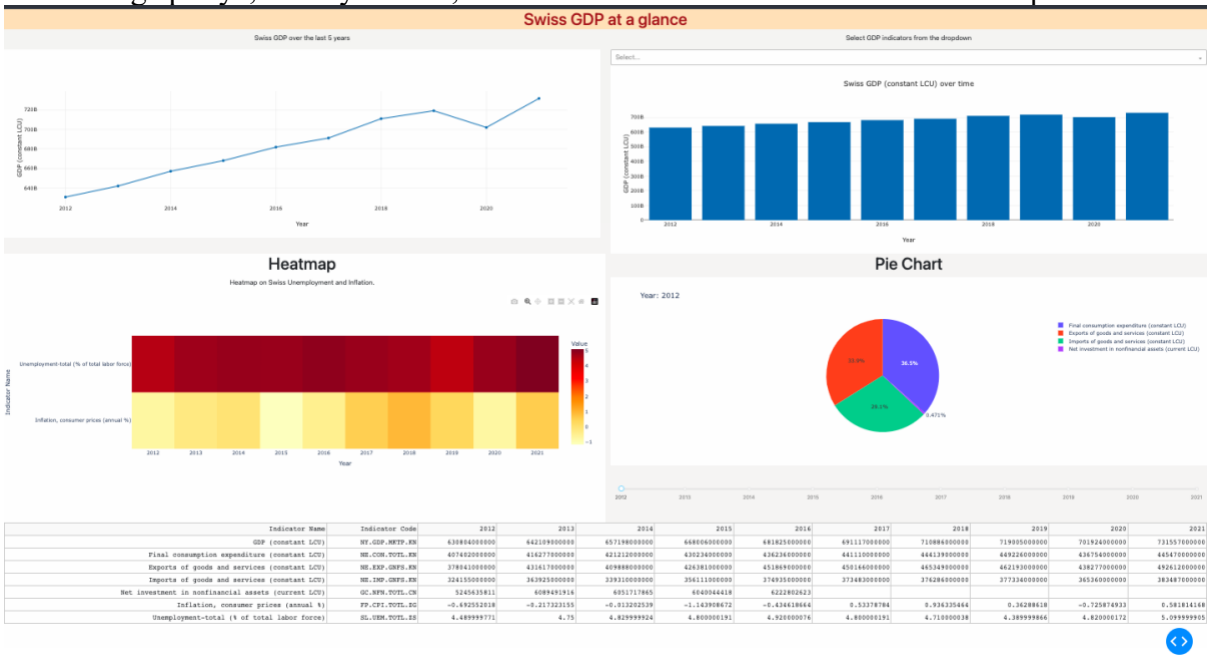

Fig: 3

I have chosen 10 years of data from 2012 to 2021. First graph on the left top corner shows the GDP over time. Here, X-axis is for years and Y-axis is for total currency (in Swiss).

There are 7 plots in 3 rows and 2 column layout.

The top-right plot comes with a dropdown menu with all the selected indicators. By selecting this, bar chart will show the changes of values from the data set by years. Like if I choose “Inflation” it will depict the bar chart like the figure below.

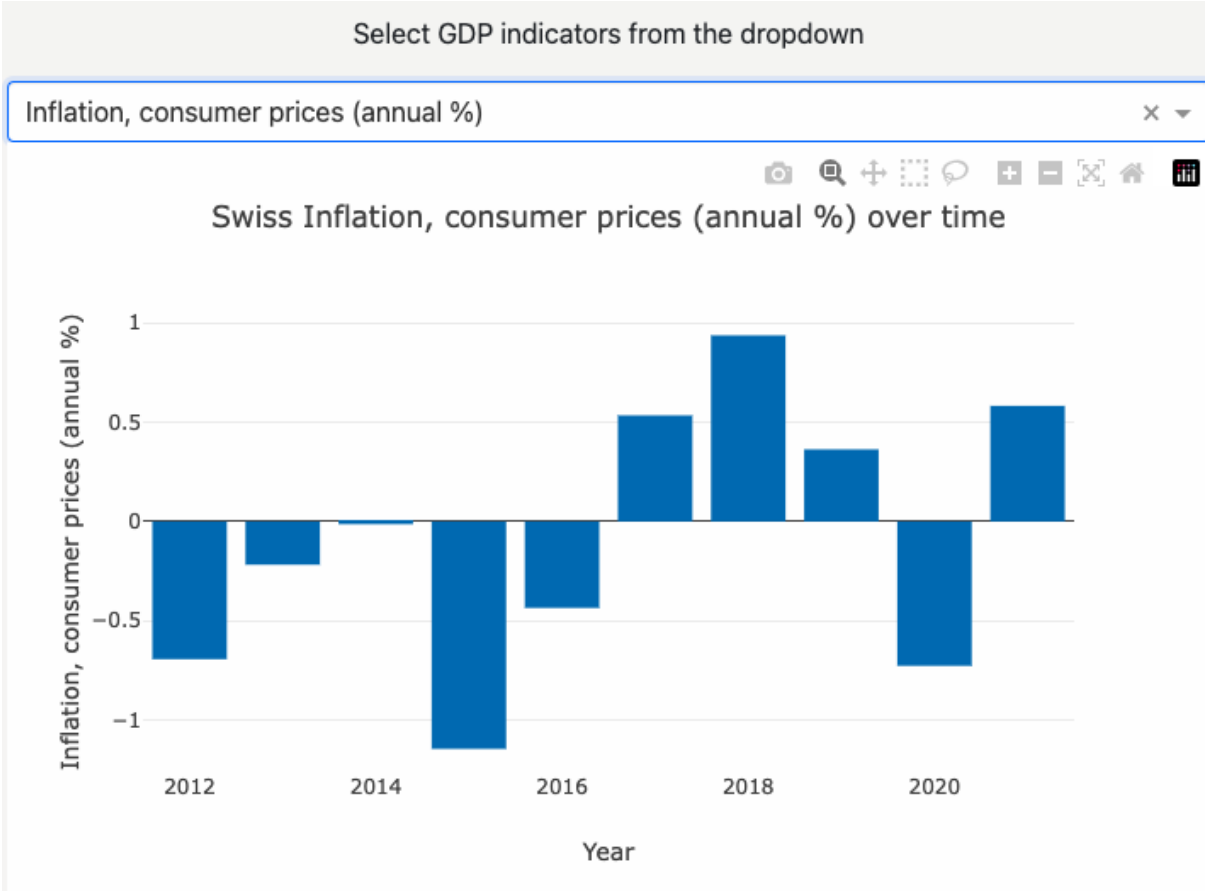

Fig: 4

Next one is a heatmap. I have chosen heatmap for inflation and unemployment data. I feel that these two indicators have the direct relation to GDP. By this heatmap, we can see the relationship between inflation and unemployment. Here is it:

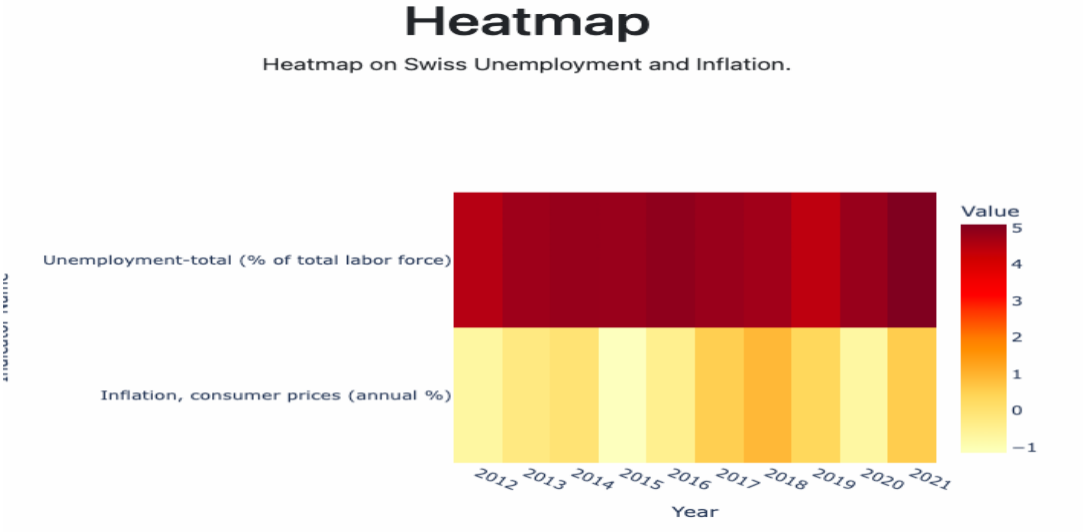

Fig: 5

Here, we can say that they are loosely related to each other. In 2015, while inflation is very low, unemployment was not quite low. In 2012, unemployment was higher, but inflation was in the lower side. Whereas, in 2018, both inflation and unemployment percentages are in the higher side.

Next, in the pie chart I have chosen just 4 indicators which are directly related to GDP calculation using expenditure approach. Here it is:

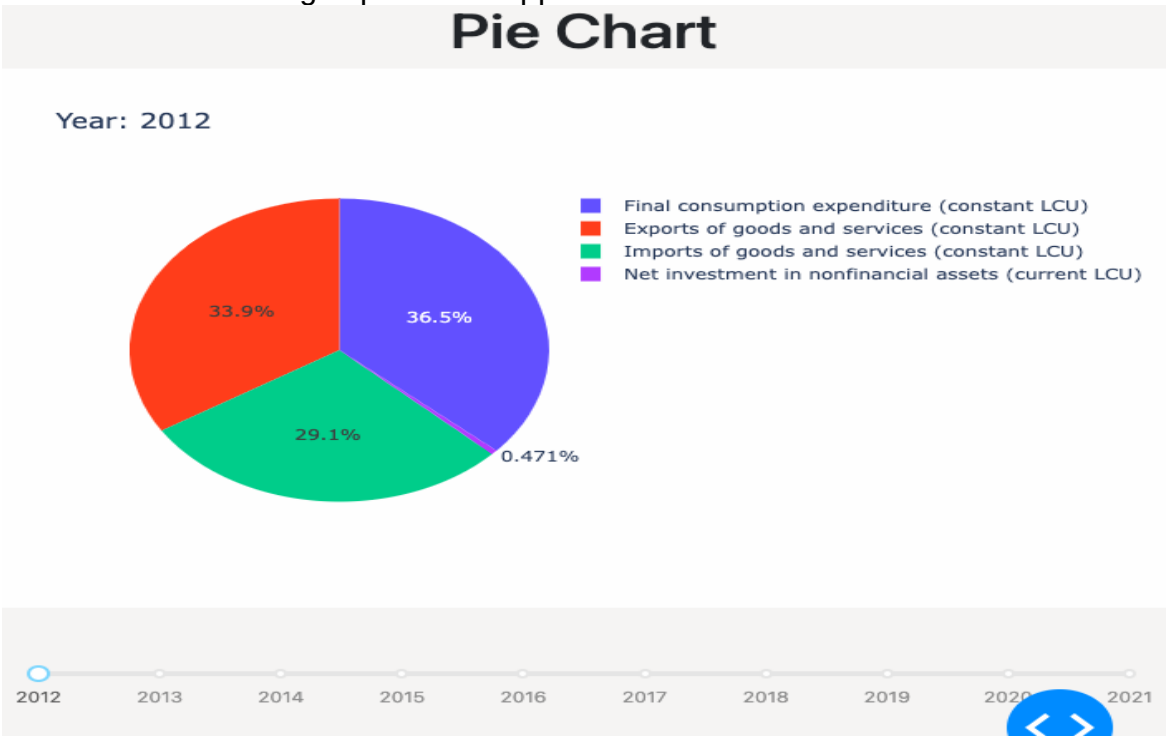

Fig: 6

A time slider is included for ease of the user to better understand the data.

At the end, I show the table itself using “plotly”.

Indicator Name	Indicator Code	2012	2013	2014	2015	2016	2017	
GDP (constant LCU)	NY.GDP.MKTP.KN	630804000000	642109000000	657198000000	668006000000	681825000000	691117000000	71088600(
Final consumption expenditure (constant LCU)	NE.CON.TOTL.KN	407402000000	416277000000	421212000000	430234000000	436236000000	441110000000	44413900(
Exports of goods and services (constant LCU)	NE.EXP.GNFS.KN	378041000000	431617000000	409888000000	426381000000	451869000000	450166000000	46534900(
Imports of goods and services (constant LCU)	NE.IMP.GNFS.KN	324155000000	363925000000	339310000000	356111000000	374935000000	373483000000	37628600(
Net investment in nonfinancial assets (current LCU)	GC.NFN.TOTL.CN	5245635811	6089491916	6051717865	6040044418	6222802623		
Inflation, consumer prices (annual %)	FP.CPI.TOTL.ZG	-0.692552018	-0.217323155	-0.013202539	-1.143908672	-0.434618664	0.5337878	3635
Unemployment-total (% of total labor force)	SL.UEM.TOTL.ZS	4.489999771	4.75	4.829999924	4.800000191	4.920000076	4.800000191	4.71000(

Fig: 7