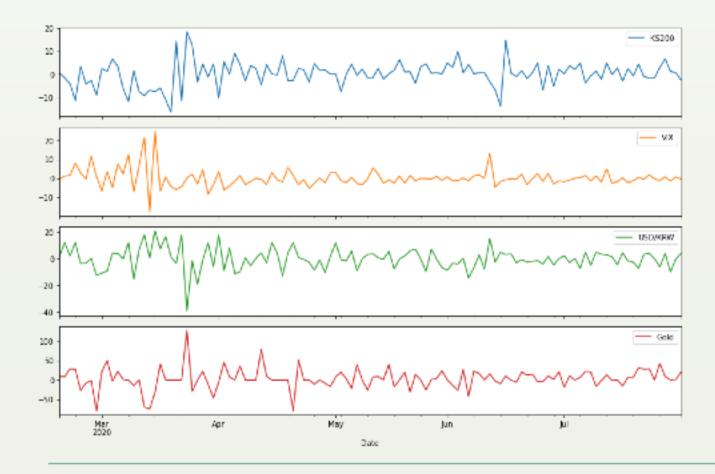
VAR 모델

○ 차분



VAR 모델

Summary

```
# VAR 모형적합

df_use_return = df.diff(1).dropna()

fit = sm.tsa.VAR(df).fit(maxlags=2)

display(fit.summary())
```

Summary of R	egression Results			
Model: Method: Date: Time:				
No. of Equatio	ms: 4.000	soo mic:	17,5351	
Nobs:	116.6	ee Hore:	17,0275	
Log likelihood	: -1589.	BG FPE:	1.757200+07	
AIC:	16.66	06 Det(Omega_mle)	1.303290+07	
Results for eq	ustion KS200			
	coefficient	std. error	t-stat	prob
const	0.006330	0.481736	0.013	0.989
11.85200	-0.307310	0.100523	-2.832	0.005
L1.VIX	-0.366231	0.314233	-3.296	0.001
L1.USD/KRM	-0.127440	0.073825	-1.725	0.084
L1.Gold	0.027581	0.018635	1.480	0.139
L2.K5200	0.106541	0.102225	1.042	0.297
L2.VIX	-0.197683	0.115837	-3.432	0.001
L2.USD/KRM	-0.033736	0.075370	-0.448	0.654
L2.Gold	0.000348	0.018579	0.019	0.985
mesults for eq	uation VIX	std. error	t-stat	prob
const	0.229006	0.438275	0.523	0.601
L1.85200	0.067280	0,098733	-0.681	0.496
L1.VIX	-0.302462	0.183327	-2.910	0.004
L1.USD/KRM	-0.105877	0.067165	-1,575	0.115
11.60ld	-0.014109	0.016954	0.832	0.405
L2.K5200	0.076723	0.003002	0.825	6.409
L2.VIX	0.071917	0.165386	0.682	6.495
L2.USD/KRM	-0.018205	0.068570	-0.265	6.791
L2.Gold	-0.029951	0.016903	-1.772	0.075

	coefficient	std. error	t-stat	prot
const	0.070142	0.744225	0.094	0.925
11.KS200	0.143805	0.167656	0.858	0.391
1.VIX	-0.036481	0.176476	-0.207	0.836
1.USD/KRM	-0.050974	0.114051	-0.447	0.655
1.60ld	-0.020389	0.028789	-0.708	0.479
2.KS200	-0.411788	0.157925	-2.607	0.009
2.VIX	0.130264	0.178954	0.728	0.467
.2.USD/KRM	0.020993	0.116438	0.180	0.857
12.Gold	-0.034268	0.028703	-1.194	0.233
tesults for e	quation Gold	std. error	t-stat	prot
	coefficient			
enst	coefficient	2.484055	1.584	0.113
onst 1.KS200	coefficient 3.934971 8.816776	2.484055 0.559598	1.584	prot 9.113 9.976 9.985
onst 1.KS200 1.VIX	3.934671 8.016776 -1.530801	2.484055 0.559598 0.589037	1.584 0.030 -2.599	0.113 0.976 0.009
enst 1.KS200 1.VIX 1.USD/KRM	3.934871 8.816776 -1.538801 8.396449	2.484055 0.559598 0.589037 0.380678	1.584 6.936 -2.599 1.041	0.113 0.976 0.009 0.298
enst 1.KS200 1.VIX 1.USD/KRM 1.Gold	3.934871 8.816776 -1.538881 8.396449 -8.884494	2.484055 0.559598 0.589037 0.380678 0.096093	1.584 6.936 -2.599 1.041 -0.879	0.113 0.976 0.005 0.298 0.375
onst 1.KS200 1.VIX 1.USD/KRM 1.Gold 2.KS200	3.934871 0.016776 -1.538801 0.396449 -0.086494 0.943342	2.484055 0.559598 0.589037 0.380678 0.096093 0.527119	1.584 0.030 -2.599 1.041 -0.879 1.790	0.113 0.976 0.005 0.296 0.379
cesults for e const 1.KS200 1.VIX 1.USD/KRM 1.GO/KRM 2.KS200 2.VIX 2.USD/KRM	3.934871 8.816776 -1.538881 8.396449 -8.884494	2.484055 0.559598 0.589037 0.380678 0.096093	1.584 6.936 -2.599 1.041 -0.879	0.113 0.976 0.005 0.298 0.375