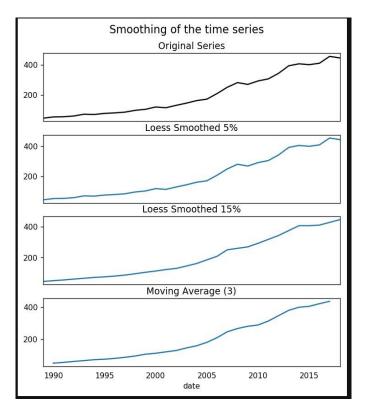
BA 4318 - BUSINESS DATA PROCESSING WITH PHYTON FINAL PROJECT REPORT

Turkey's External Debt Estimation for 2019

We have worked on Turkey's external debt from 1989 to 2018. First of all, we have checked the stationary and variance of the data and we have found that there is no stationary and the variance is high. Also, there is no constant average value, but the trend is rising. KPSS and ADF tests have been applied to measure the stationary. According to the KPSS test, our data is not stationary because the p value of the test is higher than 0.05. Also, we understood from the graph that there is a rising trend so we have applied detrending method to eliminate it.

After these transactions, we have used Loess Smoothing and Moving Average Methods for the forecasting. According to the situation, we cannot give an exact number but we can say that **Turkey's external debt is rising** for both of the methods. Because the results from these two methods are parallel to each other, one of them can be used for the forecasting.



Asena YILMAZ
Hasan Tolga KOCA
Mert TATAR
Muhammed Emin ULUAT