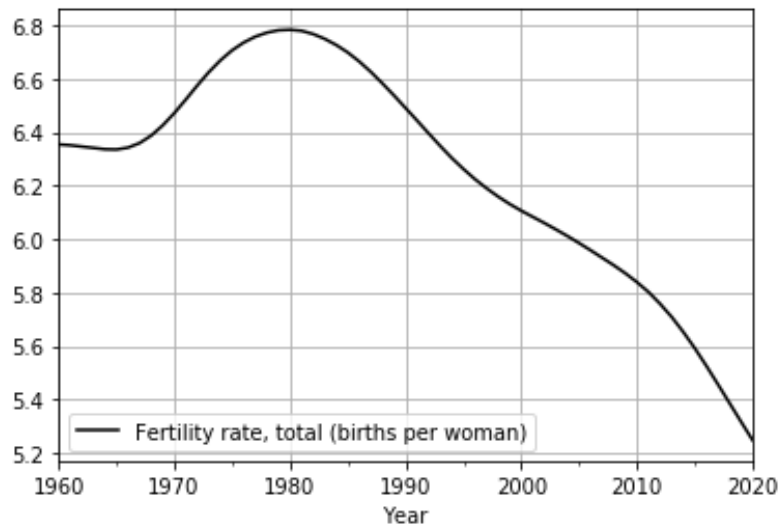**Project Description**

This project applies the use of Time Series Forecasting using ARIMA models to forecast the fertility rate in Nigeria. The forecasted output is produced for 2011 to 2020 and compared to the actual output during those years. The fertility rate in the country is seen to have a declining trend over the years. The data was collected from World Bank and wrangled.

Forecasted Result

Year	Fertility Rate, Total Births Per Woman
2011	5.803
2012	5.761
2013	5.707
2014	5.655
2015	5.590
2016	5.526
2017	5.455
2018	5.385
2019	5.316
2020	5.247

Actual Values

Year	Fertility Rate, Total Births per woman
2011-01-01	5.802
2012-01-01	5.758
2013-01-01	5.709
2014-01-01	5.653
2015-01-01	5.592
2016-01-01	5.526
2017-01-01	5.457
2018-01-01	5.387
2019-01-01	5.317
2020-01-01	5.248