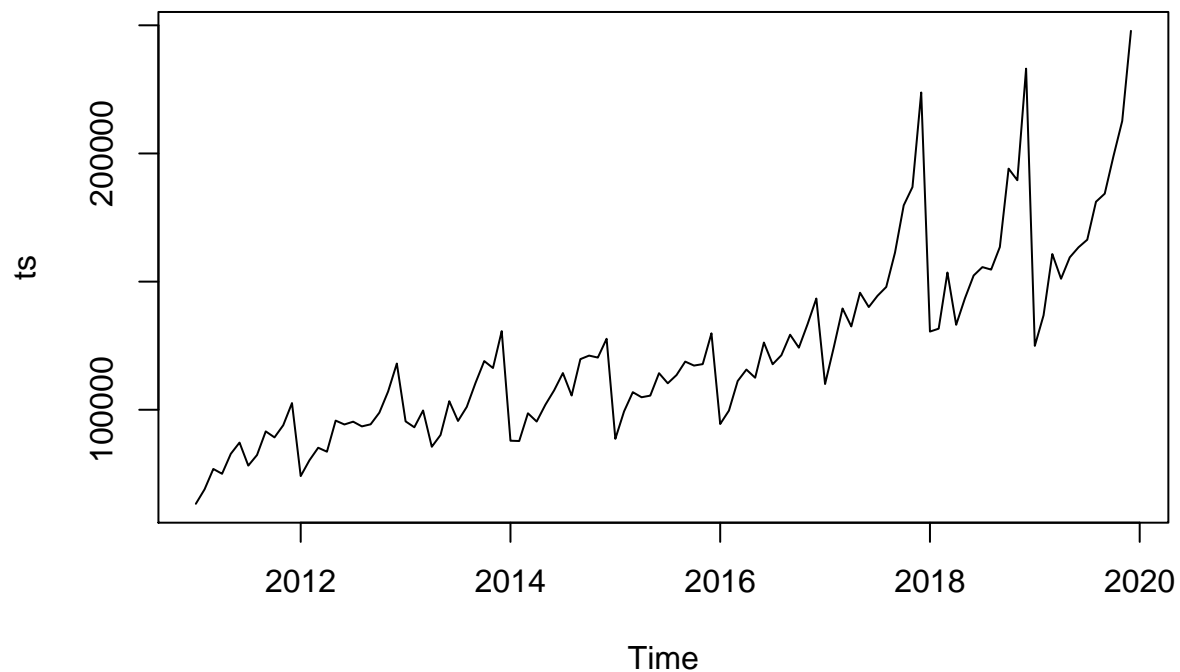


Time Series Forecasting report

Kevork Sulahian

2021-04-26



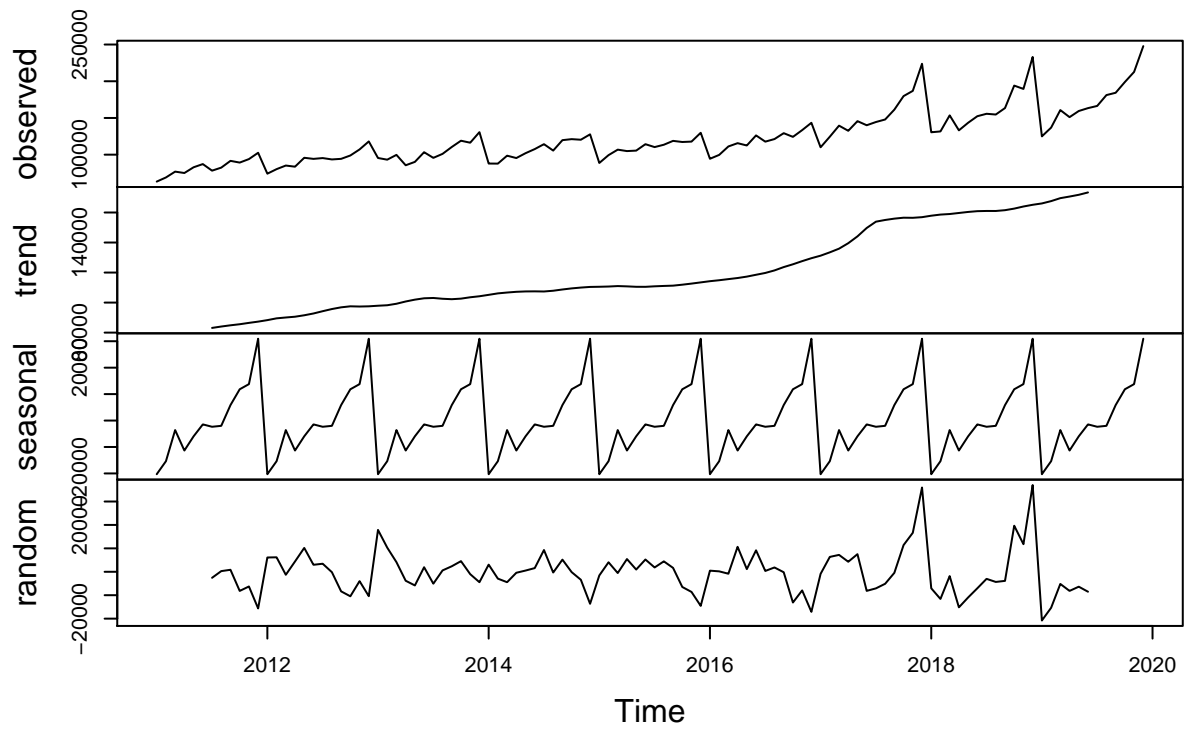
Decomposing Time Series

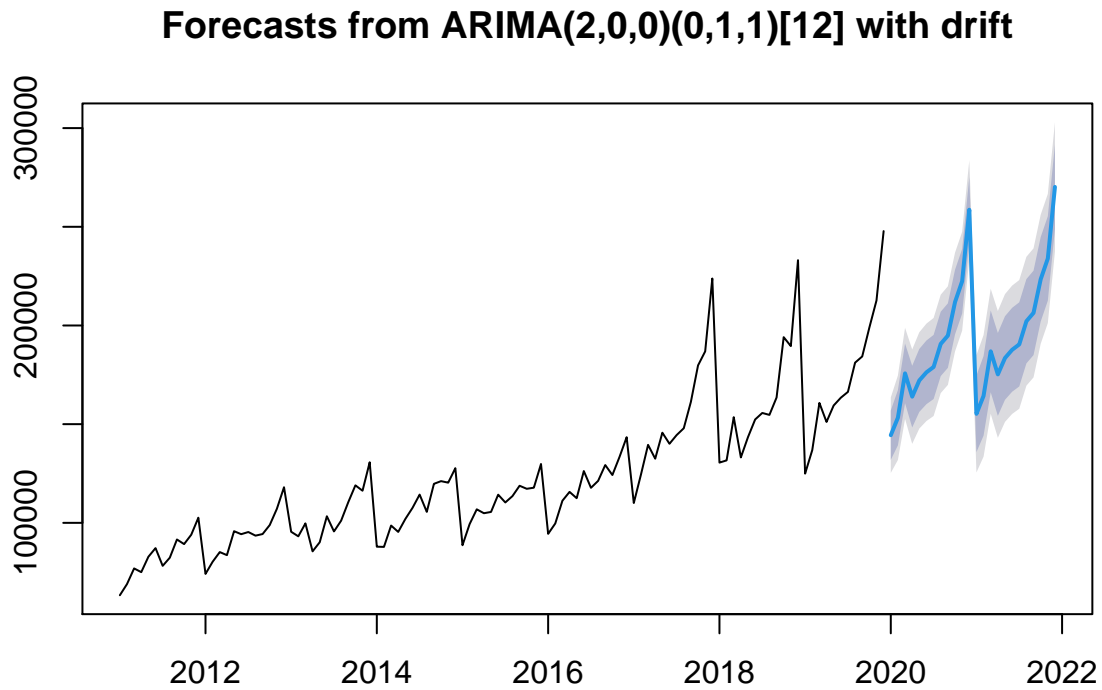
Decomposing a time series means separating it into its constituent components, which are usually a trend component and an irregular component, and if it is a seasonal time series, a seasonal component.

Decomposing Seasonal Data

A seasonal time series consists of a trend component, a seasonal component and an irregular component. Decomposing the time series means separating the time series into these three components: that is, estimating these three components.

Decomposition of additive time series





Forecasting

These estimations are what could happened in 2020 and 2021 if Covid and the war had not impacted our economy

Forecasting for GDP

if Covid did not occur

GDP growth was estimated at 7.5% for 2020

if Covid and the war did not occur

GDP growth was estimated at 7.5% for 2021

Forecasting for Total Industry

if Covid did not occur

Total Industry growth was estimated at 7.4% for 2020

if Covid and the war did not occur

Total Industry growth was estimated at 6.0% for 2021

Forecasting for Manufacturing

if Covid did not occur

Manufacturing growth was estimated at 7.8% for 2020

if Covid and the war did not occur

Manufacturing growth was estimated at 7.3% for 2021

Forecasting for Service

if Covid did not occur

Manufacturing growth was estimated at 12.7% for 2020

if Covid and the war did not occur

Manufacturing growth was estimated at 12.5% for 2021

Forecasting for trade

if Covid did not occur

Manufacturing growth was estimated at 7.89% for 2020

if Covid and the war did not occur

Manufacturing growth was estimated at 7.48% for 2021