



# Robotic Process Automation (RPA)

## Part 24 – 시계열 예측분석(Time Series) Facebook Prophet

2020. 8.

정 준 수 Ph.D.

## Prophet 설치 방법

<https://pystan.readthedocs.io/en/latest/windows.html>

[Fbprophet 설치 error 발생시\(python 3.7 이상\)](#)

<https://discuss.streamlit.io/t/streamlit-with-fbprophet/2284>

```
conda create --name streamprophet37 python=3.7 pip #use python 3.7
conda activate streamprophet #activate the environment
conda install libpython m2w64-toolchain -c msys2 # install compiler
conda install numpy cython matplotlib scipy pandas -c conda-
forge #ensure dependencies
pip install pystan
pip install fbprophet
```

## **Forecasting: Principles and Practice**

Rob J Hyndman and George Athanasopoulos  
Monash University, Australia

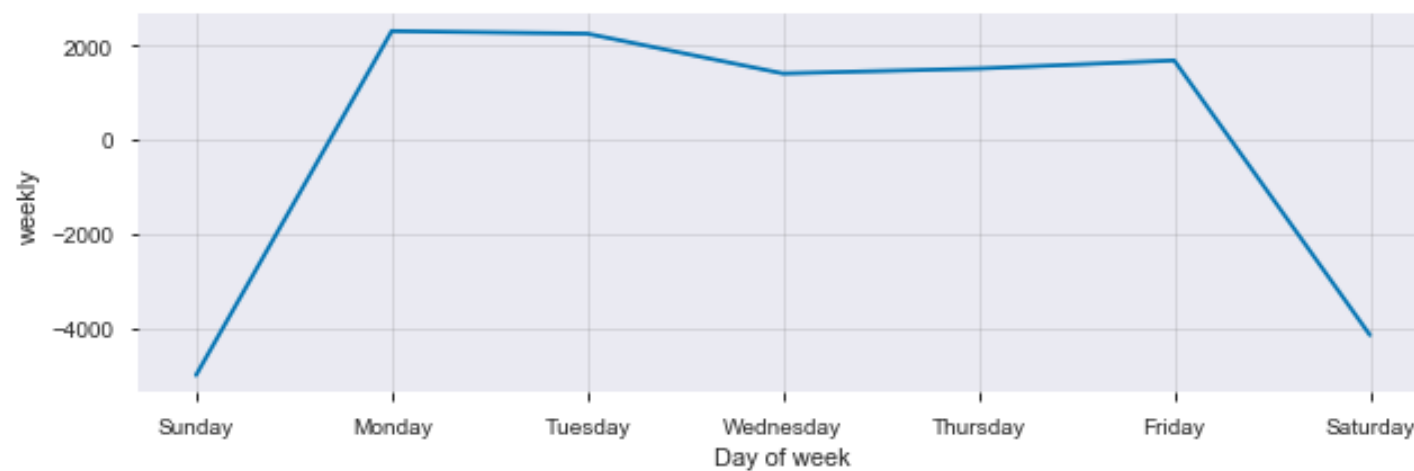
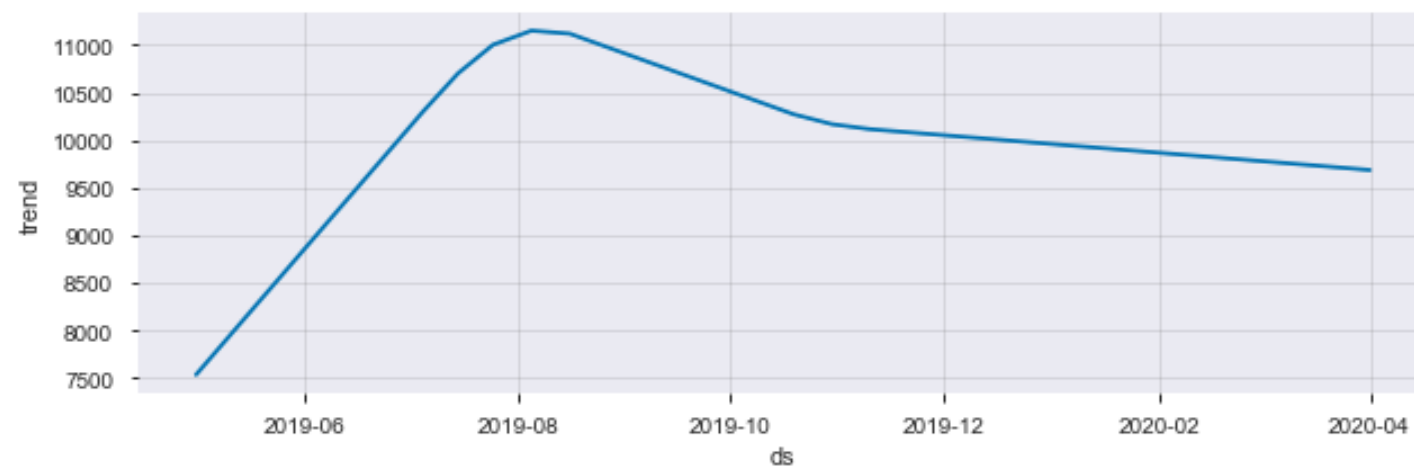
<https://otexts.com/fpp2/>

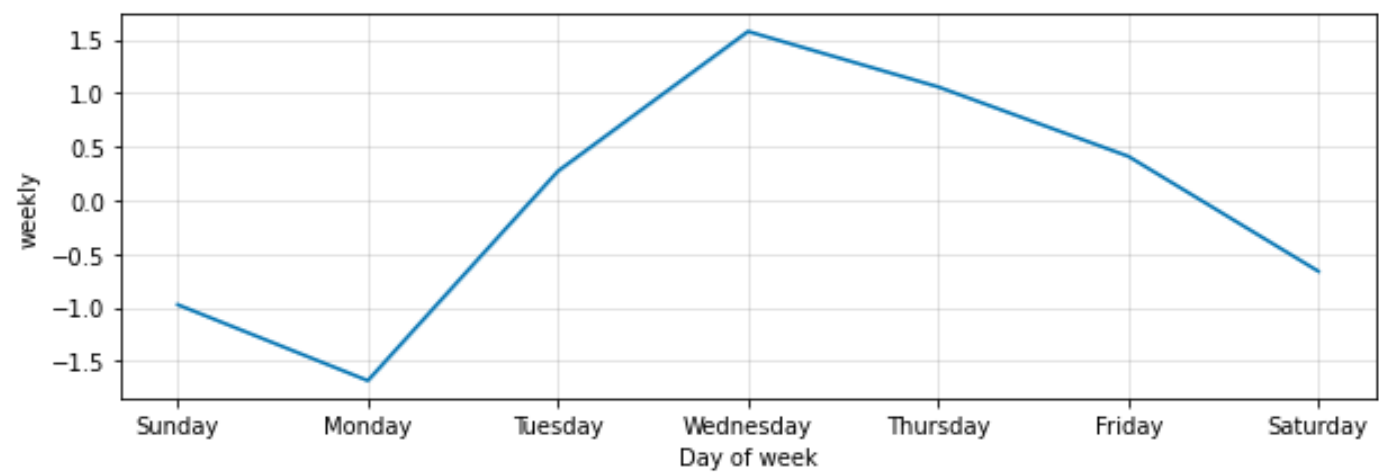
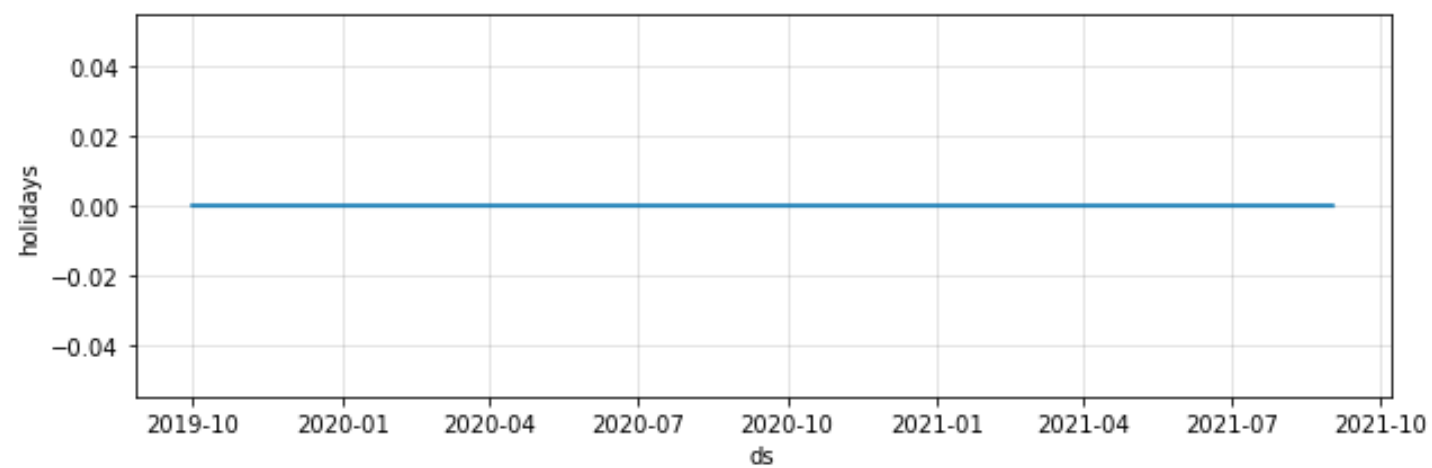
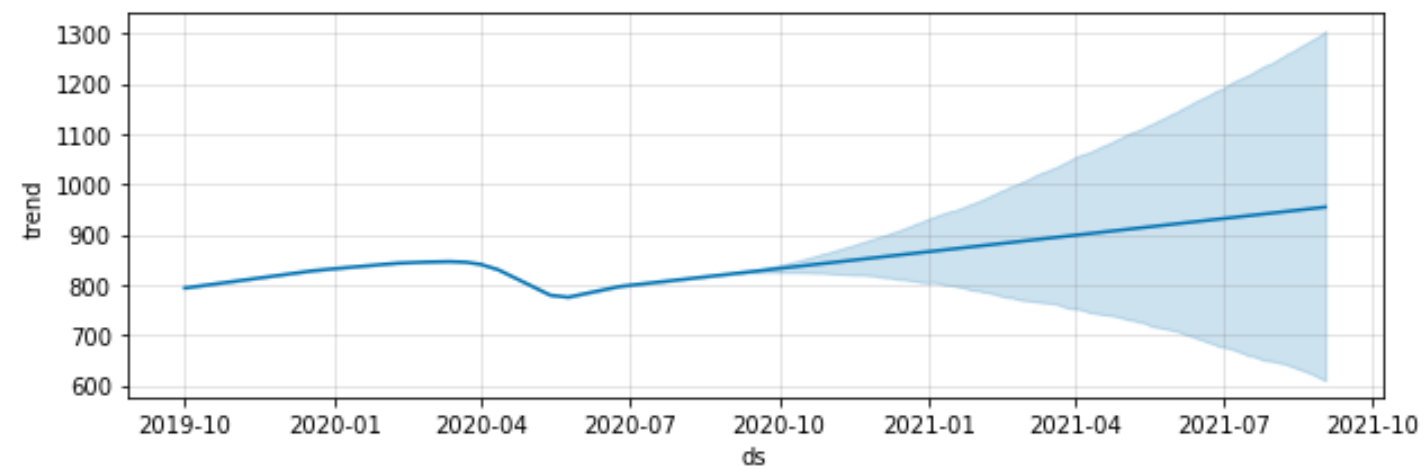
### **8.1 Stationarity and differencing**

<https://otexts.com/fpp2/stationarity.html>

The Time Series Forecasting course provides students with the foundational knowledge to build and apply time series forecasting models in a variety of business contexts. You will learn:

- The key components of time series data and forecasting models
- How to use ETS (Error, Trend, Seasonality) models to make forecasts
- How to use ARIMA (Autoregressive, Integrated, Moving Average) models to make forecasts





## Examples and Codes

**<https://github.com/JSJeong-me/SDF-RPA>**

정 준 수 / Ph.D. ( heinem@naver.com )

- 삼성전자 연구원
- 삼성의료원 (삼성생명과학연구소)
- 삼성SDS (정보기술연구소)
- (사)한국인공지능협회, AI, 머신러닝 전문강의
- 한국소프트웨어산업협회, AI, 머신러닝 SW전문강의
- 한성대학교 교수(겸)



