#install.packages("pageviews")

library(pageviews)

data<- article\_pageviews(project="de.wikipedia",article="Lionel\_Messi",platform="all",

user\_type="all",start="2015010700",end="2018030100", reformat =TRUE)

View(data)

#wp\_cache\_reset() #for clearing cache

#plot

#install.packages("ggplot2")

library(ggplot2) #drowing graphs

qplot(date,views,data=data)

summary(data)

#missing data & log transform

data$views[data$views==0]<-NA

ds<-data$date

y<-log(data$views)

df<-data.frame(ds,y)

View(df)

#forecasting with facebook's Prophet

#install.packages("prophet")

library(prophet)

m<-prophet(df)

m

#prediction

future<-make\_future\_dataframe(m,period=365)

tail(future)

forecast<-predict(m,future)

tail(forecast[c('ds','yhat','yhat\_lower','yhat\_upper')])

#plot forecast

plot(m,forecast)

prophet\_plot\_components(m,forecast)