Deep Dive into Facebook Prophet

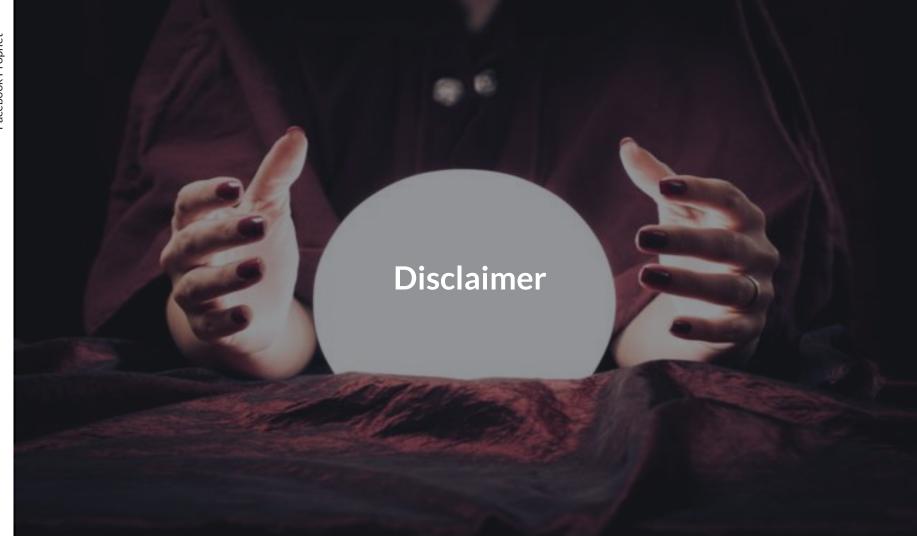
Meetup Bukalapak X Komunitas R Indonesia X Machine Learning ID

Bukalapak R&D Office, Bandung | 28-June-2019









Session Info

No need to have a math/stat NO MATH/STAT FORMULA background to hype this topic! *Unless you ask Don't hesitate, no hassle, just **ASK NOW OR NEVER** ask at your own moment! Ensure yourself fun, comfort, **PROACTIVE REWARD** and proactively share your thoughts, then get the reward

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Forecasting is an art of 2C: Coincidence and Confidence



Forecasting jaman old

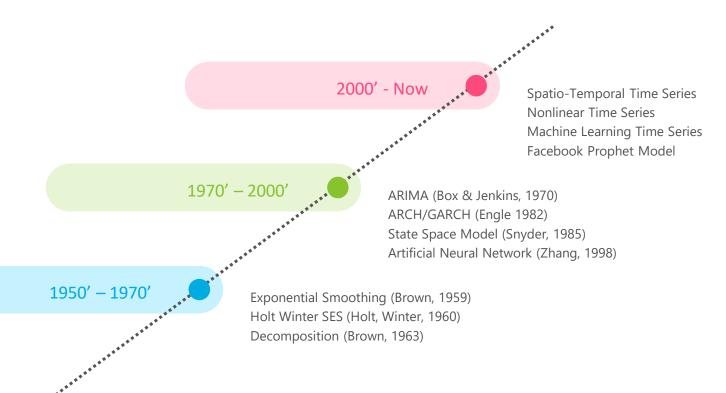
Forecasting History

From 250 – 900 AD until now, forecasting is still exist. It is mostly because forecasting technique require highest quality of art and human confidence

MOST RELIABLE



Now, what is going on?





"Internet Cepat Peramalan Tepat? Buat apa?"

- Menteri Time Series dan Forecasting (2018 – 2016 SM)

Time Series Forecasting Myth vs Fact

Myths

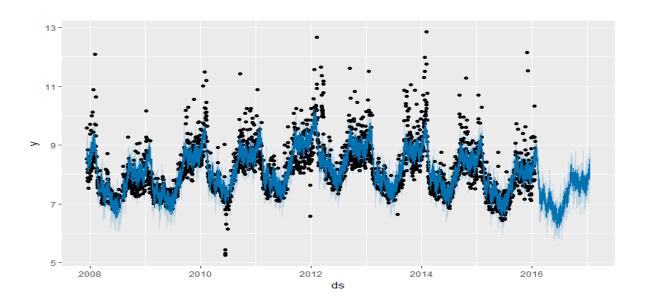
- Useless
- Cannot fit into production
- Math and Stats
 Geek, not linear to
 business matter

Facts

- Performance
 Measurement
- Maintainable and able to be deployed
- Capable to solve business problem

Facebook Prophet Model

A Brief Preview



Time Series Model

Founded to make automation of data forecasting for coping with the discrepancy between domain-based knowledge and statistical knowledge



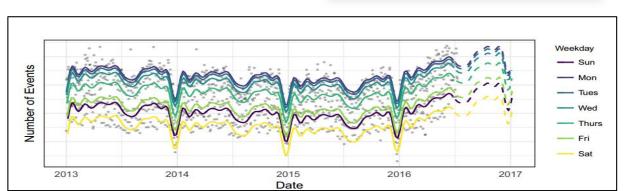


Analyst-in-the-loop

FB team believes that a timeseries data is containing various components, such as trend, seasonality, holiday, etc.

Compatible to business day, such as feature deployment date, national day-off, etc.

Automate the process of surface problems, visually inspect forecasts, modelling, and evaluation.





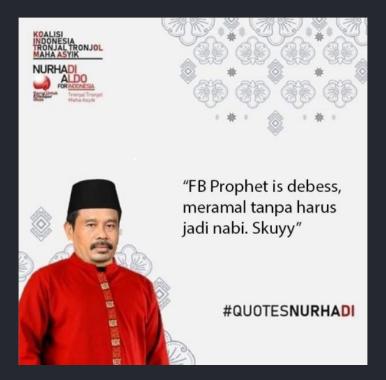
Why should FB Prophet?



No Math/Stat Background Required Easy to Customize

Long lasted Forecast

Cited by Many Journals



Bukalapak

Thank you

Figry Revadiansyah

Data Scientist @Bukalapak









