

CHALLENGE

Facebook Prophet vs Udemy Wikipedia Visits

Facebook Prophet is a Structural Time Series model, which decomposes a time series into Trend, Seasonality, Holidays, and Regressors. The challenge covers the daily Wikipedia Udemy page visits. Caution: Steps are random this time :)

FORECAST

01

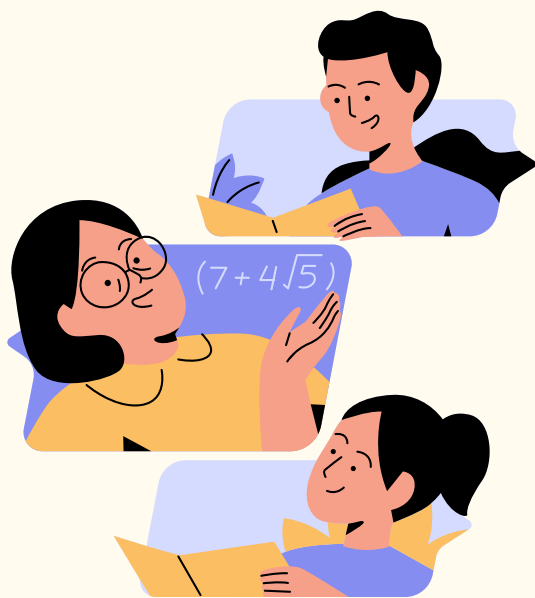
Create a Future Data Frame and make the predictions. Don't forget to add the Regressors to the Future Data Frame.



02

REGRESSORS AND HOLIDAYS

Include as Regressors the Black Friday Variable. For Events/Holidays, include Easter and Christmas. Set the Lower and Upper Window as you wish



03

VISUALIZE

Facebook Prophet has very cool visualization powers, where you can plot the Structural Time Series Decomposition, you can also see the breaks in the trend, and even how well the model fits the data



04

ACCURACY ASSESSMENT

Isolate the Predictions based on the length of the test. Then, assess the model using the usual error metrics.



05

TRAINING AND TEST SET

Create a Test Set that had 31 days. The training must be everything else.



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