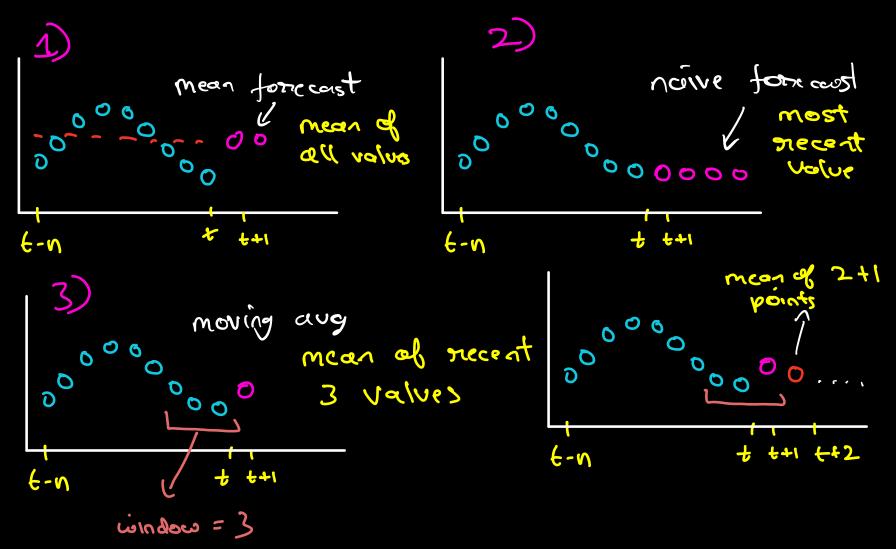
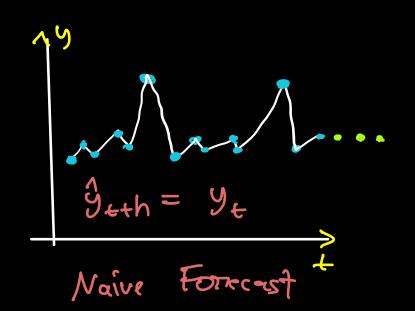
Time Sories Fornecesting -2

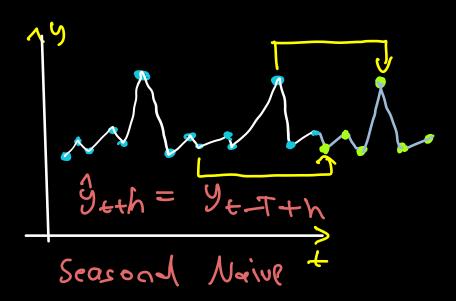
- -) Decomposition from screetch
- -> Simple Methods for forecusting
- -> MA for forecasting
- -) Smoothing Methods

Simple Fornecests



4) Seosonal Noive





5) Drift

naive sous charge is level over time

9 to fortune

Stope

Stope

Connect

Level

The stope

Sto

drift sensitaités

d(t-2) Dépending on what

the leest point is

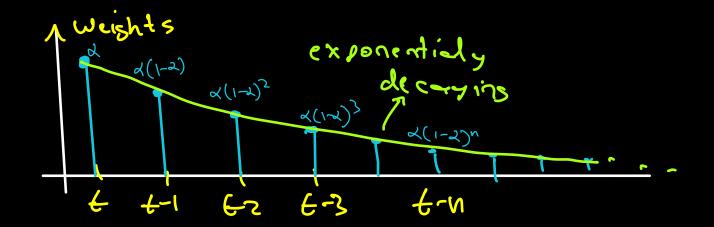
the drift (slope)

may change significantly

Not suitable for

sees ont Ts.

Simple exponential smoothing (SES) h= horizon = # steps in future 3 th = dyt + (1-d) jt assume h=1 for easy understanding = 2 yt + (1-x)x. yt-1 + (1-x)2 [xyt-i] weigh less weigh lesson weight. Tt will slowly "forget" older velves



Simple way to remember:

 $\hat{y}_{t+1} = dy_t + d(1-d)y_{t+1} + d(1-d)y_{t+2} + \dots + d(1-d)y_{t}$ if d = 0.87small ~ 9

9+4 = 0.89++0.169+++0.0329+-2+0.00649+37 weghted avorage!

Note: All buture values have the some forecest

or Forecast My My 1 Donnert "level" level of TS is different at diff t good Bon predicting level of ts √ → low → global meen 2 -> high -> notive