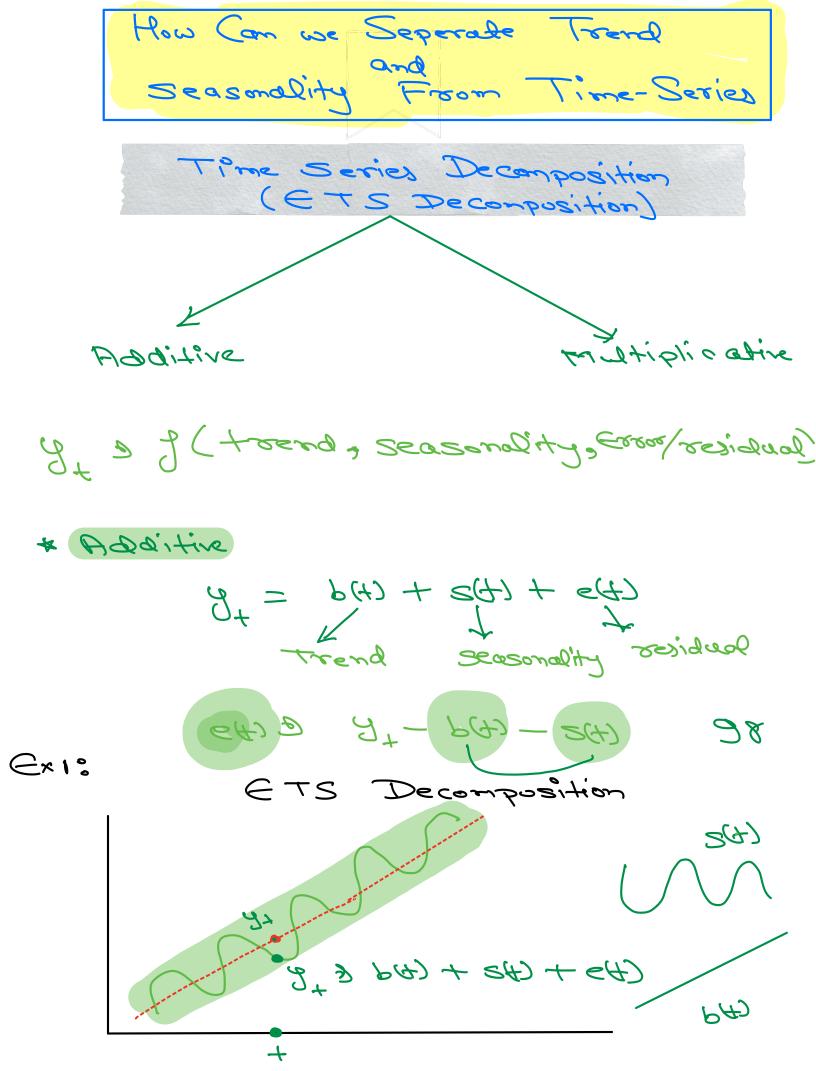


Seasonality Seasonality refers to a Repeating Pattern that occurs at Regular Intervals Jan Zan Jan 2-23 SIOS 2021 2019 2022 8,020 Sales of Sweater 2 Seasonalities remposature



Ex2: Multiplicative SD (H) 8 A7 > PA7 * EA7 * EA) CH) and & JHD PAD+ ZAD+ EA ett) 2 9(H) - (L(H) + 5(H) e4) D 9(4) - P 2× if ell Ros still som patteten we can again try model CHID 6(+) + 5, (+) + 6,-

So How can we get trend from any given Time Series? 'if we have b(+) and 54) 9 3 5CH + 6HD 9 5 8(4) x P(4) Calculating Trend Seasonality Jeanly Can we take Presse & Jell 2502 au Decide a vindou size (Typically and calculate moving Season Average

T Sole

ti 5

ti 5

ti 8

ti 8

ti 13

ti 13

ti 12

The sole

Short 13 - 10 - 3

The sole

The sole

The sole

Short 13 - 10 - 3

The sole

The sole m At & gt-1 + gt-5 - - Jtm SWY WY D T = f-mg;

De Linear Interpolation 18 a Variation
e) CMAJ
LAD CLUB
g (b(4)) 9 100 (E (A)
E additive 5 94 - (64) + 5(4))
(A) D PATING D PATING D JA) (B) JA) X BA) (B) JA) X BA) (B) JA) X BA)
17 your Essor BUD Some baytern
6x; 2+ 2+ 2+ 6+6
\$ b_+ + s(x) + (b'++s'++e')
Nested Decomposition

Te there pattern in Error?

The Essers are Distributed
Normally and mean of
Crose in close to

we can say that we are
Neither Underfore castin Nor
Overfore casting

* Agenda & Point Porecast Mape S.

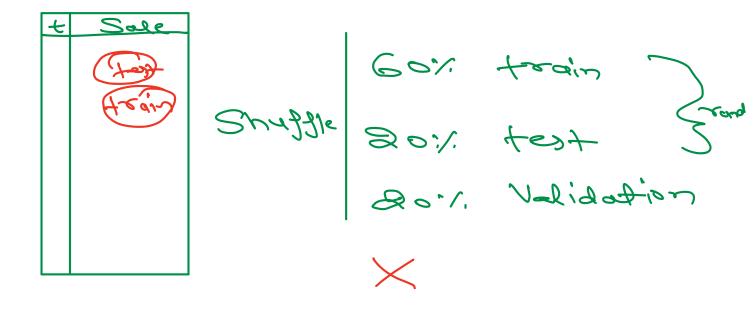
(rasan appointe borconjade cuar) MULDE

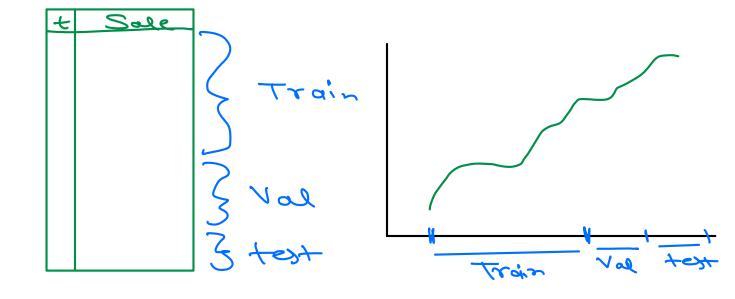
MARE 1 3: - 9: | 3: | 3: | 3: |

95 98 95 100 J:-3 0 0.02

- # We don't need other models
 to compare

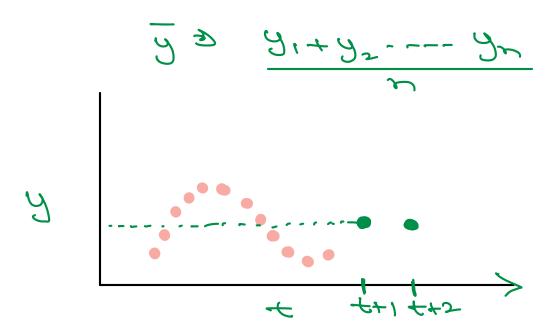
 * Relative Error % west actual
 Values
- De Can use use standard train-test Split?





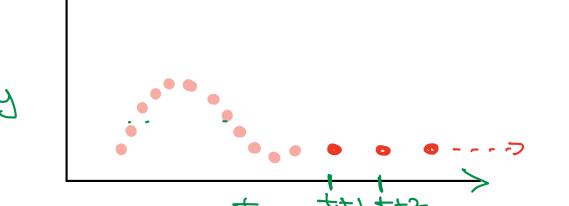
Simple Forecast Model

* rueam or median



Conclusion: Wear and resolar

Naire Appeach



Jeb 9 105 March, 107 ASP 3105

Seasonal Naire Forecast

9 + + P 9 + - T+ P

C W 9