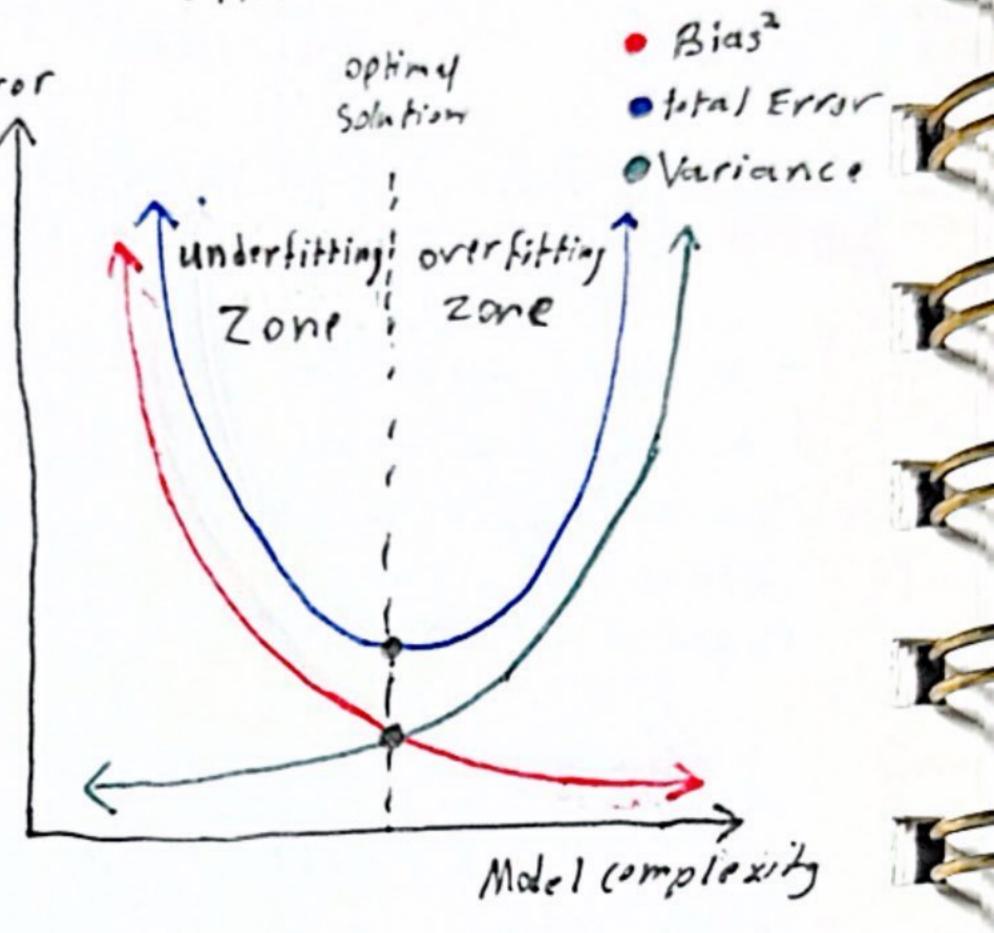
## Bias Variance Trade off

- a concept in ML Net Describes Ar struggle of a models abbility to minimize bias and variance at the same time. Usally Reducing one increses the other. as Model complexity incress o Trado Off Chart Bias Decreses as Ar Error model can capture more. Complex Patters. Variance incress as . Ar model beames. more sensitive to changes in training data. Bias Increses as model complexity becreses. Variable Lecreses as model becomes more stable, we want optimels. ! good at finding patterns and.

not fitting (training) formanoirs.



1

## Noise

-refers to random variations and Ermors in dada that don't repersent true patterns in data, like random Auctuations in sensor reading for ex. or errors in duta allection we want to find the true patterns while Ignoring noise. noise is what left over after perfect fifting of the dath which a pertect model Noise capturing all The "- signal in defin

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