

Overfiting & Underfiting

Tost -> model is tested => Accuracy for (90%)

Tost -> model is tested => Accuracy ++

(60%)

S (aw R) Tot -) Model 4 Text-S (on Prior ) 7 Train -> Accuracy => 55/0 } +1,

Test -> Accuracy => 50/0 } +1,

If under fitting fligh Bigs

High vorione optimized model or Generised model Slow Bies
1..., variante

/ (ou vanight)

Bias - Variance Tradeoff

Error -> The difference b/w actual value

( Predicted value is the error of

2f 4 wed to evaluate the model.

- O Bjas Error
- (2) variance error
- 3 me noice

\* Hoice à imaducible error but Bias l'uariance à reducible errors High bias — some fitting model High variance — some fitting model

Bias -> Bas is difference bolo the medicted value.

Bias & underfitting

x model with high bias pays very little attention to the training data.

\* If always leads to high error on haining

Variance

Minteration in the date

Varionie

It there are more fluctuation in the data i.e the noke as well. So has a high variance The model still consider the variance as something to bearn from.

\* model with high variance pays a lot of affection to toraining date & does not generalize on the date which it has not seen before.

As result, such model Perform

very well on training date but

has high arrow rotes on tot data.

variance 1 & overfitting



