Session-23 ML 13 October 2024 08:21 PM Data set validation model , acc 90% Overfiting & Underfitting

Train model is trained - According 1 Test stated - Accurage to Lover Hiting { High Variance} -> Accuracy -> +1 + 56 9/8 -> 11 49 b Unde of Hing { High Poiss } 3) optimized model ~ 12 b)

(Train -) ACC -) AA 926 (Test -) ACC -) AA 909. { low varianc } Sias - Variance Trade off Error , The difference b/w actual value of Predicted value in the terror of It is used to evaluate the mode. D Bios Error

2 Variance Error 3) The plotice * Morce à irreducible emor but miss l'vaniance is reducible errors.

High bias -> Underfiting model
High variace > over fliting model

Poias - Roias is difference blue the predicted value.

Value & the expected value.

This I aways leads to high array dela.

* It always leads to the facility of the test data.

The training of test data.

Variance

It there are more fluctuation in the data i.e. the noke as well. Os It has a high variance The model Still consider the variance of something

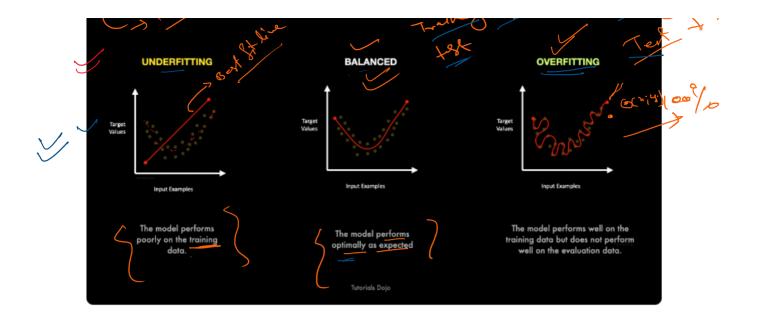
to team from. * model with high variance pays a lot of attention to training date l does not generalist on the date which it has not seen before. As result, such model perform very well on 2 test date.

Underfitting vs Overfitting

UNDERFITTING

BALANCED

OVERFITTING



Trainey 3 80%