Learning Rate

- is a important Hyper parameter that determines how much a model adjusts its parameters in response to errors during training.

A a Model with a hight LR makers Large adjustments to its paramets after each Batch of Duta, potentially learning anickly, but risking overshooting optimal values

* a Low LR means the model Leans slower as it makes smaller countions objustments, This Coan be more stable but might take larger to converge or get struck in Solutions

A finding the right LR is important. Common LR values stork value 0.01 or 0.001 simple ML models LOW LR GOOD LR High LR NNCDASILI 10.001 CNN RNN, ch 0.001 or 0.000 1 0.0001 Frans former 1000p Nots When using A DAM 0.001 LOWLR * o.1 + too high, Do trail and error

Evaluation

- is the process of Mesuring how well a the model preforms on data is has not seek in training (first set) using metrics appropriate to task. But Evaluation typically involves Validation to tune model in training and testing using test set

Regression	classification	clustring
R2	Accuracy	Silhouette
Adjusted R2	Persision	Davies Builiv
MAE	Recall	Calinski - H intex
MSE	1=1-5core	
RMSE	ROC-AUC	17

how to think of Evaluation for Walilatin is testing

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11111111 ALL	Datall	11/1
		Contraction of the Contraction o
training	Validation [test
Mobil learns		How
Fask	moterans	Good is
F71	in barameters	model
AVY	The best	tralu