Learning Rate

how much a model adjusts its parameters in response to errors during training.

to its paramets after each Batch of Duta, potentially learning anickly, but risking overshooting optimal values

\* a Low LR means the model Leans start as it makes

\* smaller countions adjustements, This Coan be more stable

but might take larger to converge or get struck in suboptimal

A finding the right LR is important. Common LR values

[Model type Start und

Simple ML models 0-01 or 0.00

791	1	<b>^</b>	simple Ml models	0.01 or 0.001	
1	11	115	NN ( basic)	0.001	
	1		CNN RNN, ch	0.001 or 0.0001	
			-	0.0001	
LowLR	Good LR	High LR	When using A DAM	0.001	
			# 0.1 + too high , 0	o trail and err	•

## Evaluation

errforms on data is has not seek in training (fost set)

whing metrics appropriate to task. But Evaluation typically
involves Validation to tune model in training and testing using test set

[HILL Preformance metrics | Clustering | FE) Cross validation (See 1913)

Tealens Wir Harabost

ARE + baboly are

Clustering Regression classification estinouerre siere MSE (Moun squard Accurage No f Hold out mothed error) . Penalice correct predictions well dare pelan Arge errors fit into its own percision TP/TP+FP DatalkijNI RMSE LIKE MSE consters we others now many predicted boringeigenal units · Fings (-1,1) posifires correct MAG(Mesh absolute +1: Well cluster } | Validation | test train in 1

Persitives correct

MAE (Mean absolute of well cluster)

Persitives (sensitivity)

Person and absolute of of on boundary

Person argabs error

Of on boundary

Person actual positives

Person of on boundary

clossifi ca tion

the precision and recall

Roc C- Auc troboof Contarion matrix .

Between TPR one FPR Table of TP, TN, F-P, FN

Model learns which wolf and Good is hyper parameters this wast from are the best traly Scanned with Camscanner