	on sa	= Brw			
-> 57 UDS	Nis - Pexf	formanc	e_		
	Podasel			Perform	ance.
	contains				USEL
	r regression		X0 (80032	11430	o d,

matplot, seaborn.

-> numbers of boundary of the number ical & gata

-> soumane matplot are used for visualization

-> seapornsmatplot are used for visualization,

2) I grove warning S.

(3) 20 ading the dataset.

df= Pd. read-CSV ("brive Path").

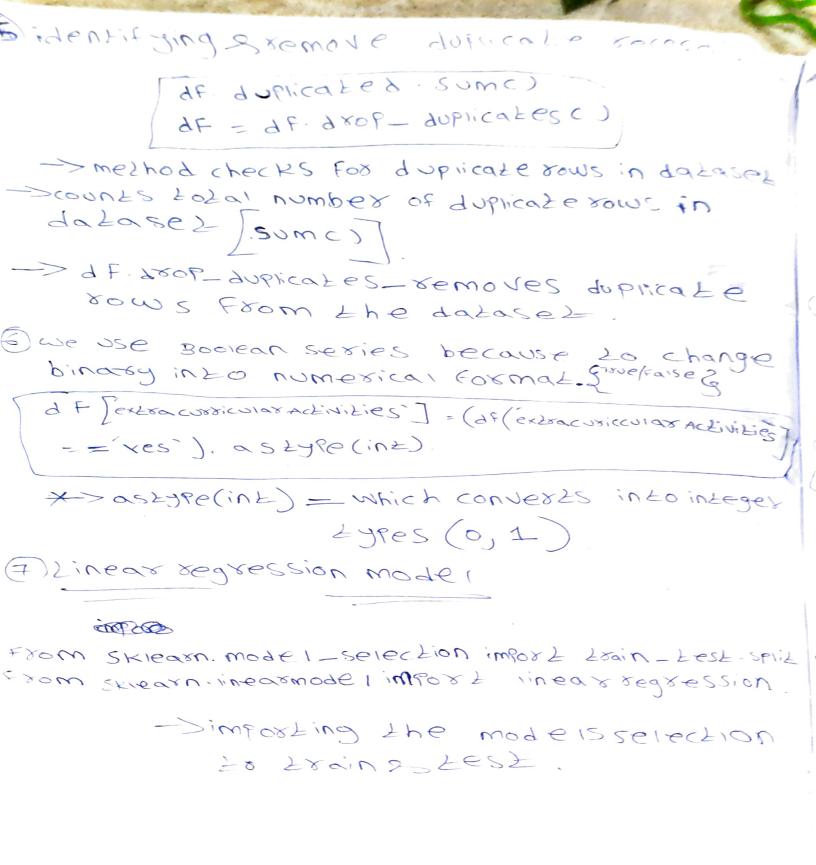
df.head (5). : head = fixst five 80WS.

(4) summarizing the dataset

df.info()

->provides summary including mean & standarad

-> shows datasetstructure, datatypes & missing values



I will stop the required output & will foring loss the data using iners regression mode. X 28 gin; 4-18 ain -> used to Itain the mode 1. x-rest, y-rest -> used to test the (1) Now will brint the linear regression score of the fested model -> x0180087 woq6 ! (10) will impost required libaries. 1) Now will be encoding the data because it convexEs text in to numbers. lapel- eucodes = rapeleucogesc) Mwill split the data & which we need as a SULPUE. BIF encoded is needed then will do, if not will Isain the datas test the data. TH will install xgboost. ! Pipinstall - - upgrade scikit-learnxappoor

(in the second of the second content and were the police descended only in the the data into Enforce ! . E. enough. 11) we use choidseaschew to Find the beil Paramezers 18) Troins the best moder using xarbory 19) NOW will Lest the model (commises mean abosolule expor (MAS) 20 ger accoracy. tested & max less on datas Moders best students performance >00de) bestperformance = df [performance index] move; best-student = delat ['performance index'] = = becx Pecf ormance HPrint results. Print ("best students performance index:") best bestormon(6) ernt (best-student).

- Oit contains student performance & 10,000 records.
- 2) we use linear regression & xcr Boost model
- 3) we conclude the best model is

 XCTBOOST & The best student is

 the Student whose performance index
 is 100 (max).