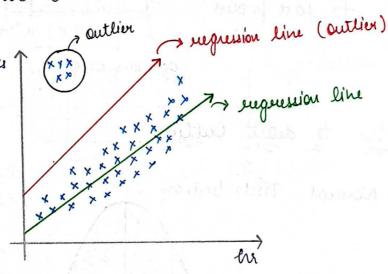
What are Outliers?

An outlier is a data point that is significantly different from the out of the data. Outliers can be much brigher or lower than the other data points. They can be caused by measurement ou execution ervious, bad data collection, on simply show variables not considered when collecting the data.

Ha marks



When is outlier dangerous?

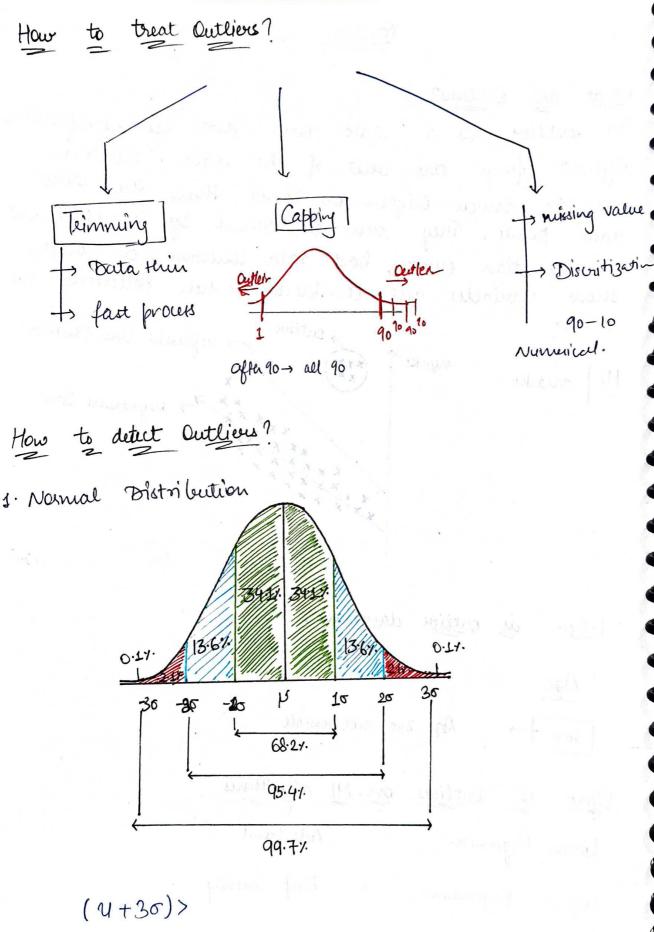
Age

300 +7 Age 300 not possible

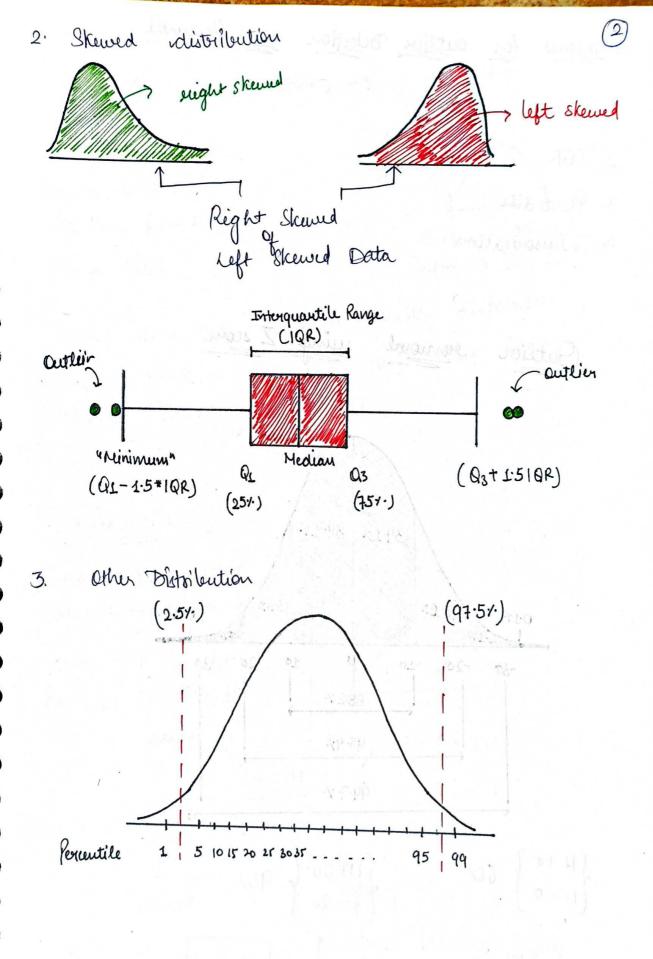
Effect of Outliers on ML algorithms Linear Regression Ada boost

Logistic Regression Deep learning

Neights algo.

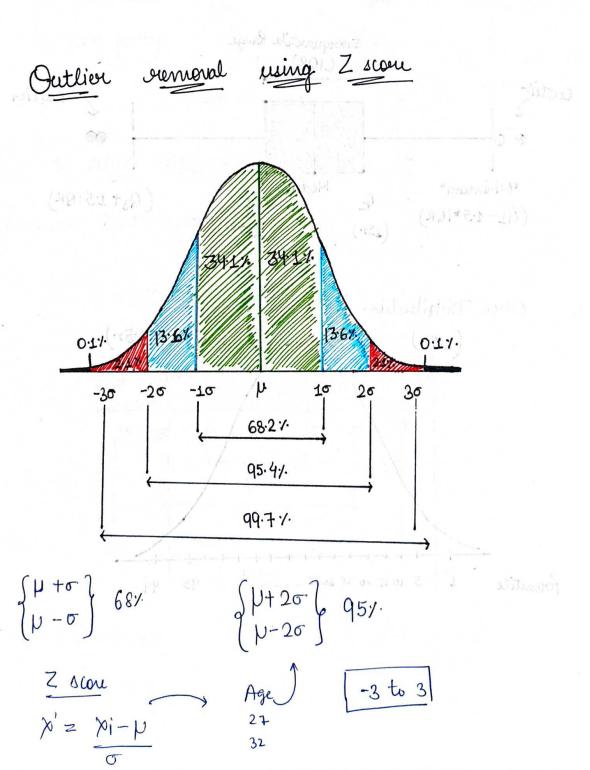


(y-30)<



## Techniques for outlier Detection and Remoral

- 1. Z-scone
- 2. IAR
- 3. Percentile
- 4. Winsonization



Outlier Treatment 3 outlier 1. Tourning 2. capping -> lone 1000 dataset upper cimit Limit 5 row , outlier G Trim from original data Outlin > 85, 3, 90 caping - 1 80, 5, 995 - data Steps: - Sure Bota should be Normally distributed Step 2:- Find ripper linit and lower lover Steps:- Decide -> Trimming + capping Percentile mar -95 -> 100% No age more than 95 ruin - 10 -> 04. No age les flran 10 501 - media 11 -> 991. Percentile remove Winsonization