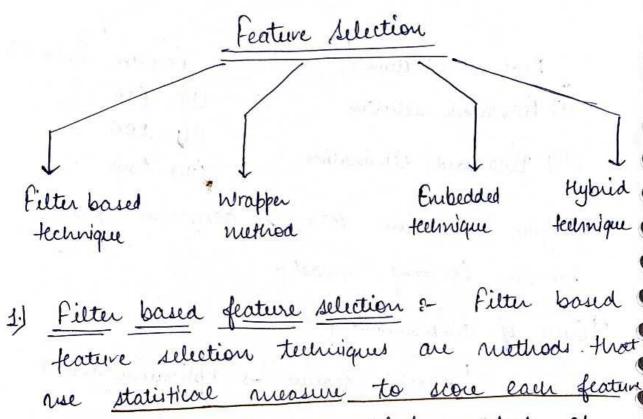
Types of Feature Selection



independently, and then select a subset of features based on these scores. These methods are called "filter" mothods because they essentially fieth out the features that do not meet some criterion.

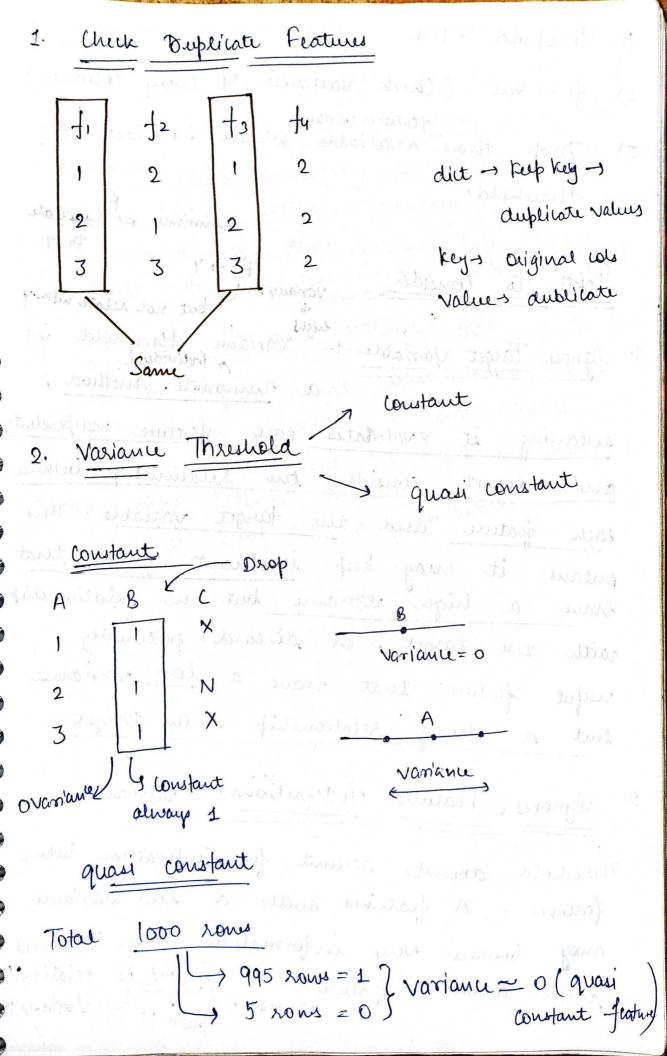
Fraiviand Smay

Technique

Stata

· Variance Thrushold · Amova · Mutualingo

· Correlation · Chi square



) thushold = 0.1 2) fi -> var (Check Variance of every columns) 3) Drop those A Variable which is less than threshold, low variance efc. relate to y Pointe to Consider Variance but not relate with y 1. Ignou Target variable: Variance thrushold in individual a runivariate method, meaning it evalutates each feature independently and doesn't consider the relationship between each feature and the target variable. This means it may keep irrelevant features that have a bright variance but no relationship with the target, or discard potentially resepre feature that have a low variance lent a strong relationship with target. 2. Agnores Features Interactions: Variance Threshold doesn't account for interaction between features. A features mitte a low variance may become very informative when combined on the author feature of and for relation 150 meith another feature of yorkave to

3.) Sensitive to Data Scaling: Variance Threshold is sensitive to the scale of the data if features are not on the same scale, the Variance will naturally be higher for features night larger values. Therefore, it is important voulance thrushold. 10000 ett f2 30.2 vara 4) Abitrary thrushold Value: - It's up to the user to define what constitutes a "low" Variance. The thrusheld is not always easy to defined and the optimal value pau vary between dotasets. 0.1 or 0.01 or 0.2 is better