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The Gini win punity measure is one of the methods used in decision tone algorithms to decide the optimal split ferom a root wode and subsequent SP it Giri Inspurty telle us what is the perbalishty of misclassifying an observation Tes decision tours are perone to outfitting especially when a true is particularly that dues. Tus is due to the amount of specifity we look at leading to smaller sample of events that meet the brenions assumptions The small sample wild lead to unsound conclusion, Ensemble methods is a machine leaguing bechuique tuet combines selvere base models in order to pendence and one optimal pendictions model

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Bootstrap Aggregating allows one to define and out-of boy estimate of the predictions on this e in Prosent by establishing predictions on this e Scanned with CamScanner				

Observations which were not used in building of heat have K-Gold ceross validation. Lucis- validation is a lesampling few cedure used to waluate machine leaving modes on a levicted data Sample. The funcional has a signed farameter ralled to that supple sto the number of groups that a given data

Sample is to be split with As we have such , the perseduce is as often called K-fold 10:055 validetion when as lecific value of Eis cusser, it.
may be used in Place of Ein the reference
to the model. A hyperfarancéer is a parameter Whose value is set hefore the learning persons heg in Hyper Parameter temping is churcial as they contlide the overall tollow behaviour of a macurie harring model. Every machine learning model ware different my Phr Parameters great combe Scanned with CamScanner

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Onin Denee words, the Doutfut commot depend on me persauct of its parameters Tue clecision boundary En: 7=0.53

senie ar: It's fue & solution to

The technique of hoosting uses various 1095 functions. Incale of ADABoost, it minimises The enpotential loss functions quat can make the apportune susiline to outliers. with gradient Boarting, any differentiable loss function can be utilised brachent Booking algoritumis more woust their Ju due case of A Da Boost the sufting 15 done by up-weighting observations that were misclassified before while brackent boostein identifies difficult observation by large residuals computed in previous Bias vaniance France Off viere lion (14) The our model is too scripte and has very few perameters there it may have viga bias and low variance On fine other hand if our model has large number of parameters true to's going to have high variance & low hias Socar So we weed to find the signed good balance without onefitting and un clertitting the data The trade off in complenity is why there is tradeply between bies I varietance. An algorithm out he more complen I has complen at the same some Scanned with CamScanner

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<u>ii)</u>	Polynomial Kernel
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