

Experiment No: 7

	Aim: Implement ensemble methods to combine
	· plifferent i modelstipitus propose (
130000	each successful model dries do corect
101	Theory: 200 sustrang ante da 20000
	Menaphai banionte ton and elabore
	Ensemble: methods dremachine learning technique
	that combine the predictions of multiple models
7	to produce dit more robust i accurate parettomber.
	the lideate is though by combining models, the
0	eventuesses of one model can be compeneded
	by the strengths of others, probe
	Below are the most common ensembles
	methods used to combine different models:
	=) stocking involves straining multiple
nether	Bagging (Bootchapel Aggregating)??!
3	=> Bagging involves distaining imultipole instance
	of the same model on different randon
7/	whoisets to the training date
<u> </u>	Fach model is strained in dependently, and
	their prodictions are combined intypically by
	averaging or mejority voting.
	For eg.,
	Random Forest is a bagging method that
	builds multiple decision trees and combines
	them to made
	them to produce more accurate and
	stable predictions

1.2.7 m)



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	=> Boosting sequentially stration models, where
	each subsequent model tries to correct the
	errors of the previous one. imadi
•	Models are not trained independently, and
Auguston do	1. this receiver made by Aprevious models are
ilabora	ighten im one importance im each then model
. radina id	monteggo andient boosting , Ada Boost , and
anh,	o XGBoostinares common + boosting inforthing
bathanas	nothati combine moveals learners 3342 from a
	atrong prediction modeletito at to
	eldnesse most common ensembles
	3)45+aelkingridmo ot base shorten
	=> Stacking involves training multiple
	different models and then using another
moto	: mordel no combine sthe predictions of
	ortherestibacco models and at to
•	the simeta-model dales the productions
lon	a finishers base a models: as a inputional
yd	learns how the best combine them
	to make the Anal predictionie
	· pro rod ·
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	on bon isself rolsisab alathor, should
	as showing a my partial of misting
	12/alm aldato
	N. C. C.