MET Bhujbal Knowledge City Institute of Technology- Polytechnic

			Adgaon, Nasl	hik- 422 003.	Date:				
	Practical No. 7								
Aim	Aim: - To implement the random forest clussifies								
	using python & evaluate its performulae on .								
	the itis dutatet								
Inp	Input: 1) Iris datuset with following deatures:								
	i) separ length								
	ii) Sepul width								
	iii) pelul length								
	iv) petul width								
	2	Target:	flower Sp	ecies	- 6 · · · · ·	e ,			
Ontk	Output: Accuracy: 10								
and the second s	- Jan 1979	V	1	· · · · · · · · · · · · · · · · · · ·					
		mecision	Recall	A-score	Support	MARKET CONTRACTOR			
Set		1.00	1.00	1.00	16	966 600 000 000 000 000 000 000 000 000			
	عمامع	1.00	1.00	1.00	Jy				
Viec	inica	1.00	1.00	1.00	15	<u> </u>			
	AND								
The	The only:								
who	what is Random forest?								
	Rundom forest is un ensomble levening ulgorithm died								
	for both classification & regression tasks. It works by								
bul	building multiple desision trees & combining their outputs to make the final prediction.								
10	mulk 6	e the final	prediction	· ·	The second second				

To classification it uses mainsity voting. In some
why random forest?
data Rundom forest SOFIES FERS on random its of
3) combining predictions to reduce variance or improved to accuracy
1. Boolstrap sampling: from the original data mitties random samples are drawn. thes are challed book Samples.
7. Tree creation: You each parts trup sample desiring tree is built. However, and a random subset of the used to split pades
3. Ensemble voting: 1) Jos clussification , each tree volues for a clus The most voted class is telected
is taken

Algorithm Steps:	
The second of th	
(stop 1) : Stuet	
(Step 2): Loud the dututet	
(Step 3); preprinces of the dura	if needed.
(Steb 2): Initialize the Rangon	tenning & testing tets
(step s): Initialize the kandon	Horest Clousifier
with desited noted	netes
step 6]: Train the model	using reaning det.
[Step 7] : predict the cutou	t of the test set
(Step B) : Evaluate the mode	Pion performance using
occuracy & chesifica	1/200
Istep 9]: end.	
Consulsion:	
Rundom forest is a powerful	, flexible, & highly
Occulate preemble algorithm	. In this procitical
ne encessfully implemented	Rundom Jusest classifice
11010d 110 (11)	ordel alla aled Proplient
actively, making it sulable	for various red - world
clussification problems. Its al	pility to hundle most
complex data.	
it a top choice in muny	emuchine learning tack.
A Pener balls	

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Inuchuel:		
	(81081)	
	Loud the delaset	
	Split into train &	
	tect tets	
	Train Rundom forest	
· , , , , , , , , , , , , , , , , , , ,	Cluscidies	
Mining the policy	predict using test	
	data	
FILLIC CONTROL OF THE STATE OF	Evaluate using accuracy	
and the same of the same	CCOTE	2
	(end)	
	SEE	