Multiclass Decision Forest Cre Nur Ma: Nur Min	esampling method reate trainer mode umber of decision drees aximum depth of the decision trees umber of random splits per node inimum number of samples per leaf node low unknown values for categorical features	32 64 1024		LogNormal	No test split	Precision for Class "2" 0.926 Precision for Class "3" 0.77' Precision for Class "4" 0.903 Precision for Class "5" 0.773 Precision for Class "6" 0.956 Precision for Class "7" 0.892 Precision for Class "8" 0.97'	61052131 61511532 11904762 34487734 38095238 87261625 28157019		1 8 98 3 240 2
Multiclass Decision Forest Cre Nur Ma: Nur Min	reate trainer mode umber of decision drees aximum depth of the decision trees umber of random splits per node inimum number of samples per leaf node	32 64 1024		LogNormal		Precision for Class "2" 0.926 Precision for Class "3" 0.77' Precision for Class "4" 0.903 Precision for Class "5" 0.773 Precision for Class "6" 0.956 Precision for Class "7" 0.892 Precision for Class "8" 0.97'	61511532 11904762 34487734 38095238 87261625 28157019	9- 3 8- 7- 4 1 1	1 8 98 3 240 2
Nur Ma: Nur Min	umber of decision drees aximum depth of the decision trees umber of random splits per node inimum number of samples per leaf node	32 64 1024 1				Precision for Class "3" 0.77' Precision for Class "4" 0.903 Precision for Class "5" 0.773 Precision for Class "6" 0.958 Precision for Class "7" 0.892 Precision for Class "8" 0.97'	11904762 34487734 38095238 87261625 28157019	9- 3 8- 7- 4 1 1	1 8 98 3 240 2
Ma: Nur Min	aximum depth of the decision trees umber of random splits per node inimum number of samples per leaf node	64 1024 1				Precision for Class "4" 0.903 Precision for Class "5" 0.773 Precision for Class "6" 0.958 Precision for Class "7" 0.892 Precision for Class "8" 0.973	34487734 38095238 87261625 28157019	8- 7- 4 1 1	1 8 98 3 240 2
Ma: Nur Min	aximum depth of the decision trees umber of random splits per node inimum number of samples per leaf node	64 1024 1				Precision for Class "5" 0.773 Precision for Class "6" 0.958 Precision for Class "7" 0.892 Precision for Class "8" 0.974	38095238 87261625 28157019		3 240 2
Nur Min	umber of random splits per node inimum number of samples per leaf node	1024 1				Precision for Class "6" 0.958 Precision for Class "7" 0.892 Precision for Class "8" 0.97	8 72 61625 28157019		
Min	inimum number of samples per leaf node	1				Precision for Class "7" 0.892 Precision for Class "8" 0.97	28157019		
						Precision for Class "8" 0.97			
		THE STATE OF THE S					16666667	6- 2 13 1 1	305 10
						Precision for Class "9" 0.910	07070707	5 12 6 1 40	13
							50128923	4 15 65	1
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							41807935	3 11 1 37	1 1 .
						3.001	11007000	2- 9 543 1 6 4	8 2 1 1 .
								1 - 348 8 7 6	1 6 1 6
								3 2 3 N 5	6 4 6 6 6
								, , , , ,	
								Scored	Labels .
Split seeds: 42, 123, 666									
Training/Test split: 5% / 95%	and the state of	Danaia	40 5-11 0	Lashier !	Taninin au 50/	Dun 4 Min and a state of the st	0.705057	0.7050	2 Dun 2 Min
			10-fold Cross-Va	Logivormal	Training: 5%	• • • • • • • • • • • • • • • • • • • •		icro-avg. precision 0.78596	Ü,
Multiclass Decision Forest Cre	reate trainer mode	Single Parameter			Test: 95%	7,	0.585973 Run 2 M	acro-avg. precision 0.75569	• • • • • • • • • • • • • • • • • • • •
	and the state of t					Predicted Class		Predicted Class	Predicted Class
	umber of decision drees	32					e e e e	2 3 4 5 6 2 8 9	40 1 2 3 4 5 6 7 8 9 10
	aximum depth of the decision trees	64							
	umber of random splits per node	1024				1 71.6% 2.5% 0.3% 0.3% 4.9%	1.9% 18.6% 1	1.9% 6.6% 0.5% 0.5% 1.4% 0.8%	13.4% 1 79.5% 2.7% 0.3% 1.4% 0.8% 0.3% 15.0%
	inimum number of samples per leaf node	1				2 1.4% 93.7% 1.4% 2.2% 0.5%	0.7% 2 3.19	87.9% 0.2% 5.3% 2.4% 0.4%	0.7% 2 1.6% 93.0% 2.2% 1.8% 0.9% 0.4%
Allo	low unknown values for categorical features	TRUE				3 86.0% 2.0% 2.0% 8.0%	2.0%		3 83.7% 2.0% 6.1% 4.1% 2.0% 2.0%
							40.09	5 2.0% 56.0% 2.0%	
						76.3% 22.4% 1.3%	4	40.8% 57.9% 1.3%	4 65.8% 26.3% 7.9%
						U 5 53.5% 8.5% 7.0%	1.4% 29.6% — \$\frac{\fin}\fint{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fin}\firk}}}{\fint}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}{\fint}}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\fir}{\firac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}{\firac{\frac{\fir}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}{\firighta}}}}{\frac{\firac{\frac{\frac{\frac{\frac{	5.7% 2.9% 17.1%	30.0% 5 54.2% 8.3% 1.4% 5.6% 2.8% 1.4% 26.4%
						THE STATE OF THE S	- Actual	5.1% 0.6% 89.8% 2.9%	6 0.6% 13.7% 0.6% 82.2% 2.9%
						7 2.1% 1.3% 83.7%	7 5.49	0.4% 0.8% 90.4% 2.9%	7 2.6% 5.2% 91.3% 0.9%
						8 1.0% 7.9% 7.9%	83.2% 8 9.8%	2.9% 2.9% 8.8% 22.5% 52.9%	8 2.9% 8.8% 59.8% 28.4%
						9 1.7% 3.4% 1.7%	65.5% 27.6%	39.1%	60.9% 9 7.5% 1.5% 4.5% 1.5% 85.1%
						10 6.7%	7.2% 83.9%	0.5%	90.2%
Training/Test split: 15% / 85%	esampling method	Bagging	10-fold Cross-Va	LogNormal	Training: 15%	Run 1 Micro-avg. precision	0.837041 Run 2 M	icro-avg. precision 0.81924	Run 3 Micro-avg. precision 0.790879
Multiclass Decision Forest Cre	reate trainer mode	Single Parameter			Test: 85%	Run 1 Macro-avg. precision	0.795854 Run 2 M	acro-avg. precision 0.76470	Run 3 Macro-avg. precision 0.765633
						Predicted Class		Predicted Class	Predicted Class
Nu	umber of decision drees	32				2 2 3 4 3 6 2	8 9 10	2 3 4 3 6 2 8 9 .	2 2 3 4 5 6 2 8 9 20 20
Ма	aximum depth of the decision trees	64							
	umber of random splits per node	1024	l			1 79.9% 2.7% 3.0% 4.5% 0.9% 2.1%	0.3% 6.6% 1 71.0%	1.8% 4.9% 1.8% 0.6% 3.4% 4.0%	12.5% 1 89.5% 3.1% 0.3% 0.9% 0.3% 1.8% 4.0%
	inimum number of samples per leaf node	1				2 0.8% 95.5% 0.2% 0.4% 0.2% 1.6% 0.4%	0.2% 0.6%		0.6% 2 1.4% 93.1% 1.8% 0.2% 2.2% 1.0% 0.2%
Allo	low unknown values for categorical features	TRUE					2 1.0%		
						3 48.9% 2.2% 42.2% 4.4% 2.2%	3 22.7%	2.3% 54.5% 20.5%	3 80.9% 2.1% 10.6% 2.1% 4.3%
						4 71.4% 27.1% 1.4%	4	38.5% 60.0% 1.5%	4 35.4% 63.1% 1.5%
						Sep 5 17.2% 8.6% 8.6% 53.4% 3.4%	8.6% SS 29.7%	7.8% 1.6% 1.6% 26.6% 10.9% 1.6%	20.3%
						O	ctual 6		tra
							≪ 6	5.9% 89.2% 4.9%	
						7 1.0% 0.5% 0.5% 1.0% 96.2%	1.0% 7 2.8%	0.9% 94.0% 2.3%	7 5.0% 1.0% 94.0%
						8 1.1% 3.3% 8.9% 6.7%	80.0%	3.3% 9.8% 9.8% 77.2%	8 3.2% 5.3% 22.3% 69.1%
						9 5.4% 1.8% 1.8% 1.8%	71.4% 17.9%	5.6% 64.8%	
									9 11.1% 1.6% 4.8% 47.6% 34.9%
						10 5.6% 0.6% 6.9% 1.3%	85.6% 10 3.2%	0.6% 1.3% 6.3%	88.6% 10 38.5% 1.1% 1.7% 5.2% 53.4%
Training/Test split: 25% / 75% Res	esampling method	Bagging	10-fold Cross-Va	LogNormal	Training: 25%	Run 1 Micro-avg. precision	0.837041 Run 2 M	icro-avg. precision 0.84363	Run 3 Micro-avg. precision 0.856873
		Single Parameter	2 .2.2 2.000 VE	-5	Test: 75%	• • • • • • • • • • • • • • • • • • • •		acro-avg. precision 0.81750	
Ole	sate trainer mode	ongo raranteter			. 550. 1070	Predicted Class	IXUIT Z IV	Predicted Class	
NI	umber of decision drees	32					* 9 10	2 3 4 5 6 2 6 9	Predicted Class
	aximum depth of the decision trees	64						-	4 3 4 5 6 7 8 9 40
	•	1024						2.1% 3.1% 1.0% 0.7% 1.7% 1.4%	
	umber of random splits per node					1 79.9% 2.7% 3.0% 4.5% 0.9% 2.	1 83.2%		90.8% 3.1% 0.3% 2.0% 0.7% 1.4% 0.3% 1.4%
	inimum number of samples per leaf node	TDUE 1				2 0.8% 95.5% 0.2% 0.4% 0.2% 1.6% 0.	.4% 0.2% 0.6% 2 1.8%	93.3% 1.6% 2.3% 0.7% 0.2%	2 1.8% 94.8% 1.1% 1.4% 0.7% 0.2%
Allr	low unknown values for categorical features	TRUE					3 42.5%		·
						3 48.9% 2.2% 42.2% 4.4% 2.3		2.5% 47.5% 7.5%	3 48.8% 2.3% 39.5% 9.3%

Ministry Control Con						4 71.4% 27.1% 1.4% 27.1% 1.4% 27.1%
Marie of Applications (ask property of Applications) Marie of Appli	Training/Test split: 35% / 65%			10-fold Cross-Va LogNormal		
Martin State of Automatic State State of Aut	Multiclass Decision Forest	Create trainer mode	Single Parameter		Test: 65%	Descriptor Class
Martin M						
Manual control contr						1 88-6% 24% 24% 5.6% 0.4% 0.4% 2.4% 0.6% 2.4% 0.6% 2.0%
Accordance and the recogney of several processing of the control o						1 85.5% 2.4% 1.6% 2.0% 0.5% 1.6% 2.0% 0.5%
Secretary of the control of the co		Allow unknown values for categorical features	TRUE			1 15 1505 0.55 0.55 0.55
Common Part						3 21.5% 2.5% 2.5% 2.5%
Part March Part Part March Part						
Remitty Cell Spots Color Cell Spots Color Cell Spots Cel						
Figure 1 1 1 1 1 1 1 1 1						
Filling Feet active Feet						
TRIMINGS Tests again Solid Crown Fagring Fagr						330 000 8030
Figure Total age 1.0 Mark Service Se						9
Part						10 9.7% 88.7% 10 10.6% 88.7% 10 10.6%
Part						
Part						
Part	Training/Test split: 45% / 55%	Recampling method	Ragging	10-fold Cross Vs LosNormal	Training: 45%	Pun 1 Micro-avg precision 0.871023 Pun 2 Micro avg precision 0.861565 Pun 2 Micro avg precision 0.970622
Author of designed flees 100 1				10-ioid Cross-va Loginormai		
Number of disease disease 12 1			J			Predicted Class Predicted Class Predicted Class
Name of secretory per per land 1024 1						
Ministry disconsist plant plan						1 800 236 146 E16 236 140 050 050 140 050 050 130 130 130 130
Family of the consignant of the process of the consignant of the consignant of the process of the consignant of the cons						
Section Control Cont		Allow unknown values for categorical features	TRUE			
California Cal						
Faming Test split: 55% / 45% Resampling method Bagging 10-4ald Coase-Ve LogNormal Training, 55% March and protein dress Number of ancions dress Number of ancions dress Number of ancions dress Number of ancions dress Allow unknown values for categorical features TRUE TR						
1.6d Cross-Vi LogNormal 1.6d Cross-Vi Lo						The state of the s
Family Test split 55% / 45% Meanwhile from the decision frees Single Partmeter Si						
Taining/Test split. 55% / 45% Reampting method Bagging 10-food Cross-Vz LogNormal Training: 55% Run 1 Micro-avg, precision 0.870798 Run 2 Micro-avg, precision 0.870798 Run 3 Micro-avg, precision 0.870798 Run 2 Micro-avg, precision 0.870798 Run 3 Micro-avg, precision 0.870798 Run 2 Micro-avg, precision 0.870798 Run 3 Micro-avg, p						
Taining/Test split_55%/45% Reampling method Bagging 10-bid Cross-Ve LogNormal Training: 55% Run 1 Macro-avg precision 10-870708 Run 2 Macro-avg precision 10-870708 Run 2 Macro-avg precision 10-870708 Run 3 Macro						
Faining/Test split: 55% / 45% Resampling method Bagging 10-fold Cross-Vs LogNormal Test: 45% Run 1 Micro-avg. precision Run 1 Micro-avg. precision Run 1 Micro-avg. precision Run 2 Micro-avg. precision Run 3 Micro-avg. precision Run 2 Micro-avg.						
Create trainer mode Single Parameter Test: 45% Run 1 Macro-avg, precision 0.859269 Run 2 Macro-avg, precision 0.84265 Run 3 Macro-avg, precision 0.861039 Run 2 Macro-avg, precision 0.861039 Run 2 Macro-avg, precision 0.861039 Run 3 Macro-avg, precision 0.8						10 5.6% 0.9% 2.8% 90.7% 10 5.4% 88.2% 10 10.4% 1.9%
Create trainer mode Single Parameter Test: 45% Run 1 Macro-avg, precision 0.859269 Run 2 Macro-avg, precision 0.84265 Run 3 Macro-avg, precision 0.861039 Run 2 Macro-avg, precision 0.861039 Run 2 Macro-avg, precision 0.861039 Run 3 Macro-avg, precision 0.8						
Create trainer mode Single Parameter Test: 45% Run 1 Macro-avg, precision 0.859269 Run 2 Macro-avg, precision 0.84265 Run 3 Macro-avg, precision 0.861039 Run 2 Macro-avg, precision 0.861039 Run 2 Macro-avg, precision 0.861039 Run 3 Macro-avg, precision 0.8						
Create trainer mode Single Parameter Test: 45% Run 1 Macro-avg, precision 0.859269 Run 2 Macro-avg, precision 0.84265 Run 3 Macro-avg, precision 0.861039 Run 2 Macro-avg, precision 0.861039 Run 2 Macro-avg, precision 0.861039 Run 3 Macro-avg, precision 0.8	Training/Test split: 55% / 45%	Resampling method	Bagging	10-fold Cross-Val ogNormal	Training: 55%	Run 1 Micro-avg precision 0.870798 Run 2 Micro-avg precision 0.858193 Run 3 Micro-avg precision 0.970202
Number of decision drees 32 10 10 10 10 10 10 10 1	Multiclass Decision Forest			. 5 IOIG G1000-VE LOGINOITIIdi		
Maximum depth of the decision trees 64 Number of random splits per node 1024 Numbum number of samples per leaf node 1024 Numbum number of samples per lea			_			Predicted Class Predicted Class Predicted Class
Number of random splits per node 1024 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10
Minimum number of samples per leaf node 1						
Allow unknown values for categorical features TRUE 126 127 128						
279 10.50			TRUE			
8 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3						
87.28 A.78						
7 3.6% 2.4% 94.0% \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						ctua
7 3.6% 2.4% 94.9% - 7 2.8% 95.4% 1.5% - 7 4.9% 1.2% 95.4% 1.5% - 7 4.9% 1.2% 95.4% 1.5% - 7 4.9% 1.2% 95.4% 1.5% - 7 4.9% 1.2% 95.4% 1.5% - 7 4.9% 1.2% 95.4% 1.5% 95.4% 95.4% 1.5% 95.4% 9						
9 2.5% 90.0% 7.5% 9 85.7% 14.3% 9 4.2% 87.5% 8.3%						
						8 6.0% 4.0% 10.0% 74.0% 2.0% 8 2.0% 3.5% 3.5% 80.4% 8
10 3.2% 3.2% 91.4% 10 4.3% 91.3% 10 7.5% 2.2% 88.0%						9 2.5% 90.0% 7.5% 9 85.7% 14.3% 9 4.2% 87.5% 8.3%

raining/Test split: 65% / 35%	Resampling method	Bagging 10-fold Cross-Va LogNormal	Training: 65%	Run 1 Micro-avg. precision	0.874324	Run 2 Micro-avg. precision	0.871622	Run 3 Micro-avg. precision	0.875676
Multiclass Decision Forest	Create trainer mode	Single Parameter	Test: 35%	Run 1 Macro-avg. precision	0.861772	Run 2 Macro-avg. precision	0.859396	Run 3 Macro-avg. precision	0.860551
				Predicted Class		Predicted Class		Predicted Class	
	Number of decision drees	32		1	8 9 40	2 2 3 9 5 6 2	9 %	2 2 3 9 5 6	2 # 9 10
	Maximum depth of the decision trees								
	Number of random splits per node Minimum number of samples per leaf	1024 node 1		1 89.2% 2.7% 0.7% 6.1%	1.4%	1 87.4% 3.0% 1.5% 2.2% 0.7% 0.7	6 0.7% 3.7%		1.4% 2.8%
	Allow unknown values for categorical			2 1.0% 92.7% 1.0% 1.0% 2.6% 1.0%	0.5%	2 0.9% 93.4% 0.5% 0.5% 3.8% 0.5%	6 0.5%	2 1.9% 94.4% 1.4% 0.5% 0.9%	0.5%
	and annual raided to categorical	33.3135		3 45.0% 5.0% 45.0%	5.0%	3 48.1% 48.1% 3.7	6	3 42.3% 3.8% 50.0%	3.8%
				4 24.2% 75.8%		4 15.4% 80.8% 3.8%		4 22.2% 77.8%	
				∑	16.0%	5 23.1% 3.8% 57.7%	15.4%	s 32.0% 16.0% 44.0%	8.0%
				V 6 5.9% 89.8% 4.21	Actual	6 0.9% 7.1% 89.4% 2.7	Actua	6 1.9% 3.7% 93.5%	0.9%
								7 3.2% 1.6% 1.6%	02.7%
				7 3.3% 1.7% 1.7% 88.3	3.3%	7 2.3% 1.1% 1.1% 92.0	8 2.3% 1.1%		33.7%
				8 2.4% 4.9%	2.4%	8 2.3% 2.3% 14.0	8 81.4%	8 12.2%	7.3% 80.5%
				9 3.2%	87.1% 9.7%	9	90.0% 10.0%	9 4.8%	90.5% 4.8%
				10 5.6% 2.8%	1.4% 90.1%	10 3.8% 1.9%	3.8% 90.4%	10 6.8%	2.7% 89.2%
raining/Test split: 75% / 25%	Resampling method	Bagging 10-fold Cross-Va LogNormal	Training: 75%	Run 1 Micro-avg. precision	0.909263	Run 2 Micro-avg. precision	0.867675	Run 3 Micro-avg. precision	0.890359
Iticlass Decision Forest	Create trainer mode	Single Parameter	Test: 25%	Run 1 Macro-avg. precision	0.881176	Run 2 Macro-avg. precision	0.815216	Run 3 Macro-avg. precision	0.86949
	Number of decision deser-	20		Predicted Class	e s to	Predicted Class		Predicted Class	
	Number of decision drees Maximum depth of the decision trees	32 64			* * *0	1 5 3 4 5 6 >	• • • • • • • • • • • • • • • • • • • •	2 2 3 4 5 6 2	* # 9 10 _
	Number of random splits per node	1024		1 91.0% 4.0% 1.0% 3.0%	1.0%	1 84.5% 3.1% 5.2% 2.1% 1.0% 1.0	% 1.0% 2.1%	1 91.6% 3.7% 0.9% 1.9%	0.9%
	Minimum number of samples per leaf			2 96.5% 2.0% 0.7% 0.7%		2 1.4% 90.5% 1.4% 0.7% 4.7% 0.7			
	Allow unknown values for categorical	features TRUE						2 2.0% 93.5% 2.0% 1.3%	
				3 33.3% 8.3% 58.3%		3 15.8% 78.9% 5.3	-	3 37.5% 56.3%	6.3%
				4 20.7% 79.3%		4 15.8% 78.9% 5.3%		100.0%	
				S 7.7% 15.4% 69.2%	7.7%	5 11.8% 5.9%	29.4% SS	35.3% 11.8% 41.2%	11.8%
				90.6%	.9%	6 1.1% 2.3% 1.1% 90.9% 4.5	W Actr	6 4.2% 95.8%	
				7 2.3%	7.7%	7 1.7% 1.7% 90.	% 5.0%	7 2.1% 5	95.7%
				8 4.2%	.2% 91.7%	8 3.2% 3.2% 9.7	% 83.9%	8 16.7%	10.0% 73.3%
				9 4.2%	87.5% 8.3%	9	81.8% 18.2%	9 6.3%	87.5% 6.3%
						10 2.6%	7.7% 89.7%	10 9.6% 1.9%	1.00
				10 3.9%	3.9% 90.2%	10 2.0%	7.7%	1.9%	1.9% 86.5%
raining/Test split: 85% / 15%									
an migricot opiit. 0070 / 1070	Resampling method	Ragging 10 fold Cross Vol. agNormal		Run 1 Micro ava precision	0.927445	Run 2 Micro ava procision	0.864353	Run 3 Micro ava procision	0.011672
	Resampling method Create trainer mode	Bagging 10-fold Cross-Va LogNormal Single Parameter	Training: 85% Test: 15%	Run 1 Micro-avg. precision Run 1 Macro-avg. precision	0.927445 0.940623	Run 2 Micro-avg. precision Run 2 Macro-avg. precision	0.864353 0.79465	Run 3 Micro-avg. precision Run 3 Macro-avg. precision	0.911672 0.891185
	Resampling method Create trainer mode	Bagging 10-fold Cross-Va LogNormal Single Parameter	Test: 15%	Run 1 Micro-avg. precision Run 1 Macro-avg. precision Predicted Class		Run 2 Macro-avg. precision		Run 3 Micro-avg. precision Run 3 Macro-avg. precision Predicted Class	0.891185
	Create trainer mode Number of decision drees	Single Parameter 32		Run 1 Macro-avg. precision Predicted Class				Run 3 Macro-avg. precision	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees	Single Parameter 32 64		Run 1 Macro-avg. precision Predicted Class	0.940623	Run 2 Macro-avg. precision Predicted Class	0.79465	Run 3 Macro-avg. precision Predicted Class	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node	Single Parameter 32 64 1024		Run 1 Macro-avg. precision Predicted Class	0.940623	Run 2 Macro-avg. precision Predicted Class	0.79465	Run 3 Macro-avg. precision Predicted Class	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class	0.940623	Run 2 Macro-avg. precision Predicted Class	0.79465	Run 3 Macro-avg. precision Predicted Class 3	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 3.3% 3.3%	0.79465	Run 3 Macro-avg. precision Predicted Class 3	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 2 98.8% 3.7% 1.9% 1 1.9%	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 3.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 11.1%	0.79465	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1%	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 98.4% 3.7% 1.9% 2 99.8% 1.2% 3 25.0% 12.5% 62.5% 4 15.8% 88.2%	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 1.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 11.1% 4 15.4% 76.9% 77.7%	0.79465	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.9% 1.5% 1.5% 1.1% 1.1% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4%	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 1.25% 62.5% 4 11.8% 84.2% 75.0%	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 3.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 76.9% 7.7% 5 18.2% 9.1% 45.5%	0.79465	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0%	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 98.4% 3.7% 1.9% 2 99.8% 1.2% 3 25.0% 12.5% 62.5% 4 15.8% 88.2%	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 1.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 11.1% 4 15.4% 76.9% 77.7%	0.79465	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.9% 1.5% 1.5% 1.1% 1.1% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4%	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 1.25% 62.5% 4 11.8% 84.2% 75.0%	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 3.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 76.9% 7.7% 5 18.2% 9.1% 45.5%	0.79465	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0%	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 1.25% 62.5% 4 11.8% 84.2% 75.0%	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 3.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 76.5% 7.7% 4 15.4% 76.5% 77.5% 6 1.8% 5.3% 85.5% 3.5%	0.79465 9 9 49 1.2% 22.3% 22.3% 22.3%	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.9% 1.5% 1.5% 1.1% 1.1% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0% 5 40.0% 20.0% 30.0% 6 2.3% 2.3% 95.37	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 1.9% 3 25.0% 12.5% 62.5% 4 15.8% 84.2% 9 75.0% 9 3.4% 9 3.4% 9 3.1% 9	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 1.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 1.5% 3 22.2% 66.7% 11.1% 4 15.4% 76.5% 7.7% 5 18.2% 91.% 45.5% 6 1.8% 5.3% 2.9% 91.4%	0.79465 9 9 49 1.2% 22.3% 22.3% 22.3%	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.9% 1.5% 1.5% 1.1% 1.1% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0% 5 40.0% 20.0% 30.0% 6 2.3% 2.3% 95.37	0.891185
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 25.0% 12.5% 62.5% 4 15.8% 84.2% 75.0% 9 10.3% 12.5% 9.3% 9 6.3% 10 6.3% 10 6.3% 10 6.3%	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 1.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 1.5% 3 22.2% 66.7% 11.1% 4 15.4% 76.5% 7.7% 5 18.2% 91.% 45.5% 6 1.8% 5.3% 2.9% 91.4%	0.79465	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.9% 1.5% 1.5% 1.1% 1.1% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0% 5 40.0% 20.0% 30.0% 6 2.3% 2.3% 95.37	0.891185 -
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 2.5% 62.5% 4 15.8% 86.2% 4 15.8% 7 5 12.5% 12.5% 7 8.3% 99.1% 9 6 3.6%	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 1.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 1.5% 3 22.2% 66.7% 11.1% 4 15.4% 76.5% 7.7% 5 18.2% 91.% 45.5% 6 1.8% 5.3% 2.9% 91.4%	0.79465 3.3% 3.3% 3.3% 27.3% 29.0 PUV	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0% 30.0% 6 2.3% 2.3% 95.31	0.891185 -
	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 25.0% 12.5% 62.5% 4 15.8% 84.2% 75.0% 9 10.3% 12.5% 9.3% 9 6.3% 10 6.3% 10 6.3% 10 6.3%	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 1.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 1.5% 3 22.2% 66.7% 11.1% 4 15.4% 76.5% 7.7% 5 18.2% 91.% 45.5% 6 1.8% 5.3% 2.9% 91.4%	0.79465 3.3% 3.3% 3.3% 27.3% 29.0 PUV	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0% 30.0% 6 2.3% 2.3% 95.31	0.891185 -
Iticlass Decision Forest	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf Allow unknown values for categorical	Single Parameter 32 64 1024 node 1 features TRUE	Test: 15%	Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 2.5% 62.5% 4 15.8% 86.2% 4 15.8% 77 6 3.6% 77 8 6.3% 9.1% 1.2% 9.1% 9.1% 9.1% 9.1% 9.1% 9.1% 9.1% 9.1	0.940623	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 3.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 76.9% 77.7% 4 15.4% 76.9% 76.9% 89.5% 3.5% 6 1.8% 5.3% 89.5% 3.5% 7 2.9% 91.4% 8 4.2% 91.4%	0.79465 2.3% 3.3% 2.2% 2.2% 2.3% 2.3% 66.7% 33.3% 5.5% 94.3%	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0% 5 40.0% 20.0% 30.0% 6 2.3% 2.3% 95.31 7	0.891185 - 0 0 0 1.5% 1.0.0% 100.0% 71.4% 28.6% 87.3%
aining/Test split: 95% / 5%	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf	32 64 1024 node 1		Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 25.0% 12.5% 62.5% 4 15.8% 84.2% 75.0% 9 10.3% 12.5% 9.3% 9 6.3% 10 6.3% 10 6.3% 10 6.3%	0.940623 * * * * * * * * * * * * * * * * * * *	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 1.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 1.5% 3 22.2% 66.7% 11.1% 4 15.4% 76.5% 7.7% 5 18.2% 91.% 45.5% 6 1.8% 5.3% 2.9% 91.4%	0.79465 3.3% 3.3% 3.3% 27.3% 29.0 PUV	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0% 30.0% 6 2.3% 2.3% 95.31	0.891185 -
aining/Test split: 95% / 5%	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf Allow unknown values for categorical Resampling method Create trainer mode	Single Parameter 32 64 1024 node 1 features TRUE Bagging 10-fold Cross-Va LogNormal Single Parameter	Test: 15%	Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 2.5% 22.5% 62.3% 4 15.8% 84.2% 25.0% 9 1.1% 9 6.3% 9 6.3% 1.1% Run 1 Micro-avg. precision Run 1 Macro-avg. precision Run 1 Macro-avg. precision Run 1 Macro-avg. precision Run 1 Macro-avg. precision Predicted Class	0.940623 * * * * * * * * * * * * * * * * * * *	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 3.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 76.9% 7.7% 4 15.4% 76.9% 89.5% 3.5% 6 1.8% 5.3% 89.5% 3.5% 9 10 Run 2 Micro-avg. precision	0.79465 27.3% 3.3% 27.3	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1% 3 28.6% 71.4% 4 100.0% 5 40.0% 20.0% 30.0% 6 2.3% 2.3% 95.31 7 8 5.0% Run 3 Micro-avg. precision	0.891185 1.5% 1.15% 1.0.0% 10.0% 71.4% 28.6% 87.9% 0.896226 0.896832
aining/Test split: 95% / 5%	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf Allow unknown values for categorical Resampling method Create trainer mode Number of decision drees	Single Parameter 32 64 1024 node 1 features TRUE Bagging 10-fold Cross-Va LogNormal Single Parameter	Test: 15%	Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 25.0% 12.5% 62.5% 4 15.8% 94.2% 75.0% 9 13.4% 94.3% 3.4% 95.1% 94.1% 95.1	0.940623 * * * * * * * * * * * * * * * * * * *	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 3.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 76.9% 7.7% 4 15.4% 76.9% 89.5% 3.5% 6 1.8% 5.3% 89.5% 3.5% 7 2.9% 91.4% 4.2% 4.2% 9 10 Run 2 Micro-avg. precision Run 2 Macro-avg. precision Run 2 Macro-avg. precision	0.79465 27.3% 3.3% 27.3	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1% 1.1% 3 28.6% 71.4% 4 100.0% 30.0% 5 40.0% 20.0% 30.0% 6 2.3% 2.3% 95.39 7 8 5.0% Run 3 Micro-avg. precision Run 3 Macro-avg. precision Predicted	0.891185 1.5% 1.15% 1.0.0% 10.0% 71.4% 28.6% 87.9% 0.896226 0.896832
raining/Test split: 95% / 5%	Create trainer mode Number of decision drees Maximum depth of the decision trees Number of random splits per node Minimum number of samples per leaf Allow unknown values for categorical Resampling method Create trainer mode	Single Parameter 32 64 1024 node 1 features TRUE Bagging 10-fold Cross-Va LogNormal Single Parameter	Test: 15%	Run 1 Macro-avg. precision Predicted Class 1 94.4% 3.7% 1.9% 2 98.8% 2.5% 22.5% 62.3% 4 15.8% 84.2% 25.0% 9 1.1% 9 6.3% 9 6.3% 1.1% Run 1 Micro-avg. precision Run 1 Macro-avg. precision Run 1 Macro-avg. precision Run 1 Macro-avg. precision Run 1 Macro-avg. precision Predicted Class	0.940623 * * * * * * * * * * * * * * * * * * *	Run 2 Macro-avg. precision Predicted Class 1 85.0% 1.7% 3.3% 3.3% 2 1.2% 91.8% 1.2% 1.2% 3.5% 3 22.2% 66.7% 76.9% 7.7% 4 15.4% 76.9% 45.5% 6 1.8% 5.3% 89.5% 3.5% 7 2.9% 91.4% 8 4.2% 4.2% 4.2% 9 Run 2 Micro-avg. precision Run 2 Macro-avg. precision Predicted Class	0.79465 27.3% 3.3% 3.3% 3.3% 3.3% 3.3% 3.3% 3.3%	Run 3 Macro-avg. precision Predicted Class 1 92.4% 3.0% 1.5% 1.5% 1.5% 2 1.1% 95.7% 1.1% 1.1% 1.1% 3 28.6% 73.4% 4 100.0% 30.0% 5 40.0% 20.0% 30.0% 6 2.3% 2.3% 95.39 7 8 5.0% Run 3 Micro-avg. precision Run 3 Macro-avg. precision Predicted	0.891185 1.5% 1.1% 10.0% 7.1.4% 28.6% 87.9% 0.896226 0.856832

Allow unknown values for categorical features	TRUE		z	100.0%		z	92.3%	3.8%		-	100.0%	
			3	33.3% 66.7%			100.09	×		3 33.3%	66.7%	
		lass	4	11.1% 88.9%		4	16.7%	66.7% 16.7%	50.0%	SSE	100.0%	
		Actual C	6	4.3% 95.7%		Actual C		95.2% 4.8%	30.0%	is 1000	7.7% 92	3%
			7	100.0%		7		100.0%		7		100.0%
			8				10.0%	10.0% 80.0%				100.0%
			9		100.0%	9		1	00.0%	. 9		50.0% 50.0%
			10	11.8%	88.2%	10			100.0%	10	11.1%	88.9%