Name of run, name of algorithm	Parameters of algorithm	Value Test/Training Spli	t Precision/Class	Value	Confusion Ma	trix									
Neural Network Best From A)	Hidden Nodes	125 10-fold X-validation	Precision for Class "1"	0.789396											
Multi Class Neural Network	Learning Rate	0.054096	Precision for Class "2"	0.789396								-			
Willi Class Neural Network	Learning Rate  Learning Iterations	363	Precision for Class "3"	0.720476	10- 22	1	8	1	9	161		+		_	
Excercise: 4)a) "Parameters"	Initial learning weights diameter	0.1	Precision for Class "4"	0.84619	9-		1		56	7		-			
Excercise. 4)a) Tarameters	Momentum	0.5	Precision for Class "5"	0.746389				1 7	100						
	Normalization	Min-Max	Precision for Class "6"	0.895452		1 2		4 218	7			-			
	Shuffle examples	FALSE	Precision for Class "7"	0.92034	6- 2	16		304 15				-			
	Random Number Seed	42	Precision for Class "8"	0.92034	<u> </u>										
	Random Number Seed	42	Precision for Class '9"	0.835354	- ŭ	5	48	1	1	5					
			Precision for Class "10"		X 4-	9	67 1								
			meanPrecision	0.839613	3- 12	24		1				_			
			stdPrecision		2 15	532 2	14 3	18							
			StaPrecision	0.068104	1 - 324	1 11 23	11	4 9	2	22					
						2 3	h 5	6 1	<b>6</b> 9	70	1				
							Cla	sss							
							Cla								
Neural Network Best Scaling	Hidden Nodes	125 10-fold X-validation	Precision for Class "1"	0.808169		,	_		_ '						
Multi Class Neural Network	Learning Rate	0.054096	Precision for Class "2"	0.918656	10 - 21	1 1	8	1	L	9 15	57				
	Learning Iterations	363	Precision for Class "3"	0.742143	9-		2			55 6	5				
	Initial learning weights diameter	0.1	Precision for Class "4"	0.919689				١.	7 102						
	Momentum	0.5	Precision for Class "5"	0.807857	8-				102						
Excercise: 4)b) "Scaling"	Normalization	Min-Max	Precision for Class "6"	0.897916	7- 2	1		8 22	22 4						
	Shuffle examples	FALSE	Precision for Class "7"	0.932791	6- 3	14	3	305 1	5 1						
Best found combination of scaling methods:	Random Number Seed	42	Precision for Class "8"	0.932102		3	43			1 3	3				
Normalization techniques used:			Precision for Class "9"	0.851742	0 "										
MinMax: LB, AC, UC, ASTV, MSTV, ALTV, M	MLTV, DL, DP, Width, Min, Max, Mode, Nr.	max, Nzeroes, Mean, Tendency, Median	Precision for Class "10"	0.794738	- × 4-	6	68								
_ogNormal: <i>Variance, DS_DR</i>			meanPrecision	0.86058		1 32		1							
TanH: <i>FM</i>			stdPrecision	0.065236		539 1	10 6	16 1	ı						
						10 17				3 2	•				
					1_ 326	10 17	13	2 5		3 2	9				
					``	2 3	h 5	6	1 8	9 3	0				
								Class							
Neural Network No Scaling	Hidden Nodes	125 10-fold X-validation	Precision for Class "1"												
Multi Class Neural Network	Learning Rate	0.054096	Precision for Class "2"	0.244369											
				0.244369	-										
no scaling used for Neural Network	Learning Iterations	363	Precision for Class "3"	0	_	22	FO		11	7	36	17	10	F	20
	Initial learning weights diameter	0.1	Precision for Class "4"	0	6 -	33	58	6	11	7	36	17	10	5	28
	Momentum	0.5	Precision for Class "5"	0	– sel										
Excercise: 4)b) "Scaling"	Normalization	Min-Max	Precision for Class "6"	0.017062	Scored Labels										
	Shuffle examples	FALSE	Precision for Class "7"	0	_ 0 2	350	517	45	70	65	296	234	97	63	167
	Random Number Seed	42	Precision for Class "8"	0	Sco										
			Precision for Class "9"	0	_										
			Precision for Class "10"												
			meanPrecision	0.026143					Τ.	Τ.					
						^	. 2	3	Dc	5	6		8	9	40
			stdPrecision	0.07292		^	. 2	3	D.	5	6	7	8	9	70

													C	lass		
leural Network Bad Scaling	Hidden Nodes	105	10-fold X-validation	Precision for Class "1"	0.675894											+
Multi Class Neural Network	Learning Rate	0.054096		Precision for Class "2"	0.880139		10 -	42	1		15			38	128	
upply tanh transformation on all values		363		Precision for Class "3"	0.466667			4			1			18	14	
of min/max	Initial learning weights diameter	0.1		Precision for Class "4"	0.508926		9 -							10	1	
i IIIII/IIIax	Momentum	0.5		Precision for Class "5"	0.38881		8 -	2					13 8	9		
Excercise: 4)b) "Scaling"	Normalization	Min-Max		Precision for Class "6"	0.890859		7 -	7	2 2			9 :	223 1	.5	1	
	Shuffle examples	FALSE		Precision for Class "7"	0.861307											
	Random Number Seed	42		Precision for Class "8"	0.868157	<u>S</u>	6 -	3	22	2		305	7	2		
				Precision for Class "9"	0.570238	Labe	5 -	17	6 2		15	1			3	
				Precision for Class "10"	0.573845	cored										
				meanPrecision	0.668484	_ ×	4 -		40	45		1				
				stdPrecision	0.182858		3 -	16	20	)	2	2			1	
							2 -	11	495 2	34	6	13			2	
							1-	281	9 25	5	33	1	8	1 12	46	
							+	3	2 3	, h	5	6	٦	8 9	70	
									<u></u>							
Neural Network Bad Scaling	Hidden Nodes	125	10-fold X-validation	Precision for Class "1"	0.821178			40	1		_	1			2 150	
Aulti Class Neural Network	Learning Rate	0.054096		Precision for Class "2"	0.909702		10 -	12			7		1	1	156	
score normalization (zero mean/unit v	-	363		Precision for Class "3"	0.677857		9 -	2							54 14	
	Initial learning weights diameter	0.1		Precision for Class "4"	0.868498								_			
	Momentum	0.5		Precision for Class "5"	0.606944		8 -					2	5	96		
Excercise: 4)b) "Scaling"	Normalization	Min-Max		Precision for Class "6"	0.917539		7 -	6	1	1		12	233	11		
	Shuffle examples	FALSE		Precision for Class "7"	0.878456											
	Random Number Seed	42		Precision for Class "8"	0.924048	els	6 -	2	13	1		296	9			
				Precision for Class "9"	0.771429	Lab	5 -	10	3	1	39		1		10	
				Precision for Class "10"	0.832347	cored										
				meanPrecision	0.8208	Š	4 -		10	69	•					
				stdPrecision	0.101123		3 -	14	2 3	34	1	1				
							2 -	15	530	1 10	6	20				
							1 -	322	16	15	19	1	2		2 15	
							+	\\	2	3 1	5	6	1	8	9 10	
									+			-		_		
Neural Network Bad Scaling			10-fold X-validation	Precision for Class "1"	0.693091		10 -	53	1		13			47	148	
/lulti Class Neural Network	Learning Rate	0.054096		Precision for Class "2"	0.854831		10 -									
ogistic normalization used	Learning Iterations	363		Precision for Class "3"	0.507955		9 -	1					1	14	1	
	Initial learning weights diameter	0.1		Precision for Class "4"	0.552695		8 -						6 86	,		
excercise: 4)b) "Scaling"	Momentum	0.5		Precision for Class "5"	0.556667				_							
	Normalization	Min-Max		Precision for Class "6"	0.875107		7 -	5	2 1			4 2	13 15		1	
	Shuffle examples	FALSE		Precision for Class "7"	0.887718	_	6 -	2	13	2		297 2	1 4			
	Random Number Seed	42		Precision for Class "8"	0.930909	abels			2		70		2	-	3	
				Precision for Class "9"	0.7		5 -	8	2		18		2	1	5	
				Precision for Class "10"	0.572381	Sco	4 -		32	39		1	_			
				meanPrecision	0.713135											

		stdPrecision	0.153924	3 -	19		23	1	2	2					
				2 -	12	514	1 4	10 8	2!				1		
				1-	283	11	26	32	3	7	1	6	41		
					3	2	3	Α 5		1	8	9	10		