

Lampiran 1. *Code MatLab*

```

% Solve a Pattern Recognition Problem with a Neural Network

% Script generated by Neural Pattern Recognition app

% Created 29-Jul-2021 12:25:57

%

% This script assumes these variables are defined:

%

% input - input data.

% output - target data.

clc, clear, close;

tic

%%load data

filename = 'dataset.xlsx';

x = xlsread(filename,'A2:V190');

t = xlsread(filename,'W2:X190');

```

Choose a Training Function

For a list of all training functions type: help nntrain 'trainlm' is usually fastest. 'trainbr' takes longer but may be better for challenging problems. 'trainscg' uses less memory. Suitable in low memory situations.

```
trainFcn = 'trainbr'; % Bayesian Regularization
```

Create a Pattern Recognition Network

```
hiddenLayerSize = 10;
net = patternnet(hiddenLayerSize, trainFcn);
```

Setup Division of Data for Training, Validation, Testing

```
net.divideParam.trainRatio = 70/100;
net.divideParam.valRatio = 15/100;
net.divideParam.testRatio = 15/100;
net.trainParam.epochs = 100; %maksimal 1000
net.trainParam.lr = 0.001;
%net.trainParam.max_fail=10;
```

Train the Network

```
[net,tr] = train(net,x,t);
```

Test the Network

```
y = net(x);
e = gsubtract(t,y);
performance = perform(net,t,y)
tind = vec2ind(t);
yind = vec2ind(y);
percentErrors = sum(tind ~= yind)/numel(tind);
```

```
performance =
```

```
0.0416
```

View the Network

```
view(net)
```

Plots

```
%figure, plotperform(tr)
```

```
%figure, plottrainstate(tr)
```

```
%figure, ploterrhist(e)
```

```
figure, plotconfusion(t,y)
```

```
%figure, plotroc(t,y)
```

Time proses

```
cpu = toc
```

```
cpu =
```

```
2.9574
```

Accuracy

```
acc = 1 - performance
```

```
acc =
```

```
0.9584
```

Published with MATLAB® R2021a

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(<http://dcapswoz.ict.usc.edu/>)

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All publications reporting on research using this database have to acknowledge this by citing the following article:

- Jonathan Gratch, Ron Artstein, Gale Lucas, Giota Stratou, Stefan Scherer, Angela Nazarian, Rachel Wood, Jill Boberg, David DeVault, Stacy Marsella, David Traum, Skip Rizzo, Louis-Philippe Morency, “*The Distress Analysis Interview Corpus of human and computer interviews*”, in Proceedings of Language Resources and Evaluation Conference (LREC), 2014

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412	1	11921.02121	6309.828284	10311.90932	941.9701613	8442.389487	43725.47407	3264.15342	29540.96695	40936.63407	6628.286844	4988.48803	15844.18126	50328.62213	1400387378	-1.59562799	-1.294527208	-1.70788498	-1.1553938053	-1.787373323	-1.464834837	1	C	
413	0	11995.28996	485326274	771657887	17306.11706	1720223505	727323913	1207232505	329.559323	1466.818627	1127.403242	2834.744758	4234.449559	1101294689	1121094294	-2.05801514	-2.39864901	-2.063264897	-2.10418057	-1.960777102	-1.140777102	1	C	
414	0	11882.66543	7435.16832	9607.170602	2106.264142	29389.42766	14145.32606	3739.13154	4904.34411	34405.0211	1564.291134	1200.08691	4881.271862	818690.9074	3.750065169	-0.74481919	-0.362894487	-1.010534099	-0.784773884	-1.153200462	-0.670946409	1	C	
415	0	14062.19054	14490.16835	8606.19037	7801.26198	36790.6063	7183.94966	4723.1216	4723.1216	5701.67812	1981.309108	2891.66148	2187.36148	9102.303132	1.270786341	-2.08202027	-2.08202027	-2.08202027	-2.08202027	-2.08202027	-2.08202027	1	C	
416	1	20977.25443	14062.16835	12796.11049	1037.28278	2415.45329	1037.28278	1037.28278	1037.28278	8251.117969	1904.11440	2097.01391	2683.106339	180.0104856	3931.780959	7665.74495	64.6007096	-3.049505332	-3.151249387	-3.151249387	-3.151249387	-3.151249387	1	C
417	0	23638.02981	19587.74153	29616.31505	1992.17073	8045.475148	33401.23775	13071.1891	24855.1788	18257.76352	569.782377	1893.72734	3606.700577	68210.76392	0	-3.941331328	-3.748487611	-0.065250094	-3.90470101	-3.936550096	-3.936550096	1	C	
418	0	30403.60915	19874.20145	64236.96664	11226.33525	1055.584517	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	11226.33525	1	C	
419	0	27808.0752	2122.18434	11170.50674	2953.53292	7813.182045	9134.009256	14031.21204	13497.97131	9920.200488	1801.71719	702.20244	5120.831849	13651.9289	0	-2.560575728	-2.218017623	-1.727745044	-1.969978889	-2.874657191	-2.464413756	1	C	
420	0	9146.41774	6039.74078	3455.27008	517.5343891	3164.78889	2385.12314	2680.38383	2964.844607	5701.67812	1981.309108	2891.66148	2187.36148	9102.303132	5.02253345	-1.780788141	-1.236977161	-1.852832946	-1.141730991	-2.058319676	-1.861790249	1	C	
421	0	11645.94266	4960.33018	3970.05495	205.9802291	459.883868	2886.39012	515.239452	6433.030499	485.270136	70.8240544	102.557584	9047.67562	907.138566	0	-0.877717008	-1.00067196	-1.12211224	-0.80382131	-1.162803664	-0.802190362	1	C	
422	0	39276.82836	36920.68394	76446.70576	20952.31209	16275.80718	28882.521066	10208.14843	20208.14843	20208.14843	20208.14843	20208.14843	20208.14843	20208.14843	20208.14843	20208.14843	20208.14843	20208.14843	20208.14843	20208.14843	20208.14843	1	C	
423	0	19987.65233	4803.24849	8463.19606	3651.772789	8506.832742	7183.94966	2046.7354	24219.42242	1777.460232	11196.97314	13855.75818	11004.527	9138990885	-1.832408461	-1.048363344	-1.370748931	-0.799114193	-1.510021225	-1.147767588	0	1		
424	0	41780.75804	30709.9954	49401.0716	886.756095	8182.381766	50846.0594	1514.80123	16342.88245	15451.60413	1805.47347	36878.2079	8054.21267	42.717876	-0.461765377	-0.579250205	-16.38107317	-15.1709796	-16.23178077	-16.23178077	-16.23178077	1	C	
425	0	30890.13715	2509.31546	5464.126366	171.5841346	658.4193726	3992.07582	585.147767	225.734717	391.566275	376.52934	63.1842242	4342.68015	60356.62855	0	-0.951333564	-1.09137808	-1.164213139	-0.21279298	-1.189903414	-0.85083327	1	C	
426	1	526.48.85867	11218.25716	28275.46362	1165.263318	706.196639	9975.762271	8041.459886	81442.42497	2653.393936	3321.37624	1633.56347	81442.42497	2653.393936	2.363834423	-2.739923747	-2.76223156	-1.90935261	-1.90935261	-1.90935261	-1.90935261	1	C	
427	0	44133.66684	6040.39677	22550.73464	22442.43782	6401.993709	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	12908.24409	1	C
428	1	35830.80202	24406.75686	30334.9108	5582.204138	20442.75097	33523.2368	28366.92993	6486.37858	1444.95412	8206.320963	11057.15401	7680303914	442.2410464	-0.161301272	-0.873333746	-0.715998489	-0.806785471	-0.161301272	-0.806785471	-0.806785471	1	C	
429	0	4622.2546	6223.17668	10995.4626	21325.2881	8570.161085	2978.63048	1851.85982	1421.04887	6040.39677	9050.985163	21967.51572	8736.82962	831.031297	-0.510025761	-0.620505977	-0.666330154	-0.99102806	-0.99102806	-0.99102806	-0.99102806	1	C	
430	0	65670.91854	44741.17273	55452.18302	8004.001523	21465.57594	29587.4369	6195.80399	16820.91276	1597.709222	10774.56691	136865.335	83.2208351	-1.493214495	-1.497175763	-0.910981514	-1.827450004	-1.827450004	-1.827450004	-1.827450004	-1.827450004	1	C	
431	0	82806.99256	26230.99124	67835.44169	3516.344691	4145.117921	13236.89493	3564.118892	21484.40742	3289.318888	11479.91163	5662.45065	9665.80166	0	-4.588784735	-4.208441584	-4.971061993	-1.492098601	-1.492098601	-1.492098601	-1.492098601	1	C	
432	0	46468.87818	2123.00816	71255.95538	3646.40953	551.546898	50306.79305	447.130554	954.1023389	26088.48647	388.350919	17625.35337	14508.24663	99346.4634	0	-24.92039567	-24.90746165	-24.76909505	-24.8008989	-24.97938805	-24.9692653	1	C	
433	1	5986.17782	4248.623011	1313.772893	764.1326019	1280.01356	4535.25095	5644.98712	1841.124806	10043.14025	84.73432366	82.1351151	391.988886	69989.8206	9.225022335	-1.546372895	-1.894906464	-1.806698955	-0.960049886	-1.922684198	-1.569736022	1	C	
434	1	6127.95141	41959.11598	51262.13827	25990.23531	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	17392.62617	1	C
435	0	41173.79742	14135.84048	3287.194	2222.737241	2684.043415	10284.91426	10392.68247	864.774913	11227.56686	2792.279537	4396.384132	598.565299	75016.303	238.568395	-0.690098453	-0.48140647	-0.916652602	-0.313642757	-0.806797348	-0.464918314	1	C	
436	0	6762.53178	3180.69024	51440.3258	5040.3258	750.37189	5480.38855	3037.870206	1496.28855	3037.870206	1496.28855	3037.870206	1496.28855	3037.870206	1496.28855	3037.870206	1496.28855	3037.870206	1496.28855	3037.870206	1496.28855	1	C	
437	0	9196.00374	4039.74078	3455.27008	517.5343891	3164.78889	2385.12314	2680.38383	2964.844607	5701.67812	1981.309108	2891.66148	2187.36148	9102.303132	5.02253345	-1.780788141	-1.236977161	-1.852832946	-1.141730991	-2.058319676	-1.861790249	1	C	
438	0	59150.46225	3951.49702	25227.99545	2030.047899	3313.901399	27785.27783	5889.881758	9404.108868	29882.775383	3909.42035	1283.92152	25584.2725	134781.705	39.64021164	-1.2303909	-1.334646187	-1.370919136	-0.61250205	-1.556817051	-1.04526701	1	C	
439	0	78426.94203	11407.79688	73126.41188	29900.43612	17312.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	33912.52772	1	C
440	0	67498.17218	26206.57167	53074.01656	10088.86214	15305.42008	1432.12742	15446.56678	31100.13324	3060.68756	2625.120066	5496.24056	11405.00925	1104402.776	154.1444573	-0.500094282	-0.809238229	-0.500094282	-0.790703377	-1.137928012	-0.824803974	1	C	
441	0	60281.4883	36004.39743	42848.42783	1931.39743	2487.730461	5815.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	1	C
442	1	60281.4883	36004.39743	42848.42783	1931.39743	2487.730461	5815.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	5015.11318	6901.39743	1	C
443	1	13810.14749	5264.510517	14513.66558	5573.671629	11335.08618	82019.91272	21121.03399	26599.79972	47559.25006	14513.66558	14513.66558	14513.66558	14513.66558	14513.66558	14513.66558	14513.66558	14513.66558	14513.66558	14513.66558	14513.66558	14513.66558	1	C
444	0	48099.4629	11381.24414	61239.13907	3600.539808	5889.032359	12816.9350	5661.13227	12171.36379	24374.18351	2260.97712	1546.35473	1764.18066	8477.69508	16.1906418	-0.401476113	-2.84411233	-3.496197374	-2.60210616	-3.500523128	-3.626050741	1	C	
445	0	39635.94244	6369.46629	30719.33653	1445.98781	2770.92963	1445.98781	2770.92963	1445.98781	2770.92963	1445.98781	2770.92963	1445.98781	2770.92963	1445.98781	2770.92963	1445.98781	2770.92963	1445.98781	2770.92963	1445.98781	2770.92963	1	C
446	0	82493.4659	21639.7053	43595.84141	11536.6411	3864.76354	15447.3671	13292.39646	14934.79778	32972.54052	10265.41139	21888.39994	112440.2178	278.3194727	-0.90991564	-0.930876045	-0.13173093	-8.625056426	-0.94432115	-0.97209471	-0.97209471	1	C	
447	1	78744.45797	37999.66085	23919.88737	386.8884737	1080.32222	11482.3638	2547.82296	1097.40708	2380.35243	999.3807796	6051.47814	6021.02064	43.13769297	-0.62082649	-0.70798537	-0.745029883	-0.02974402	-0.943017922					