```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:22:49
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.39
	Elapsed Time	00:00:00.46

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

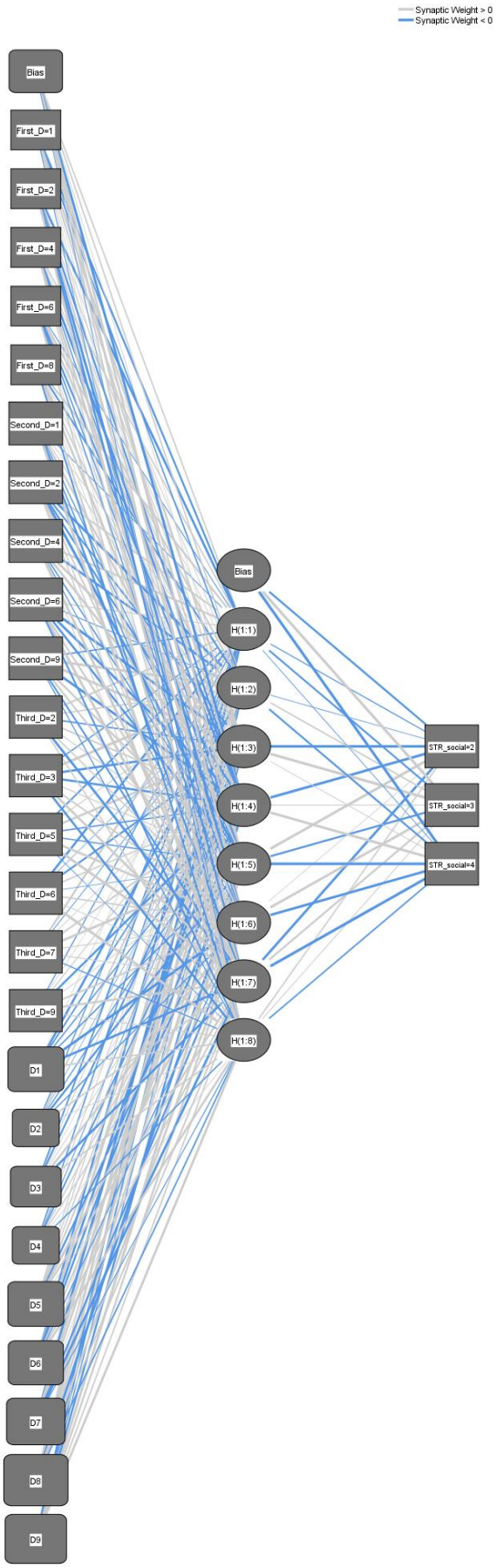
		N	Percent
Sample	Training	8	88.9%
	Testing	1	11.1%
Valid		9	100.0%
Excluded		95	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		25
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		8
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	2.546
	Percent Incorrect Predictions	12.5%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	.435
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted										
		Hidden Layer 1								Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	.206	.211	.018	-.610	.418	.496	.224	-.047			
	[First_D=1]	-.315	-.202	.361	.280	.006	.002	.035	-.074			
	[First_D=2]	-.435	.036	.117	-.326	.270	-.570	-.344	.462			
	[First_D=4]	.190	.029	.122	-.479	-.158	.438	.181	.076			
	[First_D=6]	-.080	.321	.347	-.315	-.184	-.161	.015	.227			
	[First_D=8]	.340	-.303	.046	.234	.422	.027	.288	-.274			
	[Second_D=1]	-.073	.049	.093	.396	-.133	-.190	-.363	.654			
	[Second_D=2]	.284	-.589	-.273	-.333	-.739	.272	.144	.163			
	[Second_D=4]	.369	-.462	.659	.516	-.194	-.107	.726	.090			
	[Second_D=6]	.127	-.086	-.622	-.617	-.391	.321	.796	-.306			
	[Second_D=9]	-.216	.622	.605	-.573	.386	.310	-.295	-.125			
	[Third_D=2]	.295	.178	-.224	.272	.105	.215	-.518	.178			
	[Third_D=3]	-.179	.787	-.468	-.388	.117	.246	.526	-.410			
	[Third_D=5]	-.292	.082	.430	-.200	-.158	.510	.634	-.037			

	[Third_D=6]	-.415	-.006	-.310	.198	-.023	.220	.057	.787			
	[Third_D=7]	.364	-.058	.032	.294	.605	.080	.104	-.141			
	[Third_D=9]	-.142	.006	.105	-.382	.056	.298	.383	.109			
	D1	.013	-.430	-.221	-.173	-.207	-.697	-.455	.233			
	D2	-.146	.255	-.002	-.139	-.360	-.153	.249	.065			
	D3	-.254	.063	-.295	.001	.047	.400	-.455	.254			
	D4	-.188	.060	-.073	-.247	.175	.161	.005	-.174			
	D5	.095	.118	.170	.287	-.324	.560	.365	.024			
	D6	-.371	.496	-.413	-.333	.310	-.138	.257	.402			
	D7	.038	-.840	.588	.429	.024	-.327	-.526	-.088			
	D8	.167	.406	.489	.307	-.645	.401	.260	-.220			
	D9	-.369	-.233	-.128	-.354	.630	.337	.215	.557			
Hidden Layer	(Bias)									-.363	1.111	-1.335
1	H(1:1)									-.128	-.311	-.040
	H(1:2)									-.033	.228	-.325
	H(1:3)									-.707	.889	.055
	H(1:4)									-.656	.076	.660
	H(1:5)									.745	-.346	-.932
	H(1:6)									.028	.612	-.620
	H(1:7)									-.584	.362	-.941
	H(1:8)									.199	.069	-.230

Classification

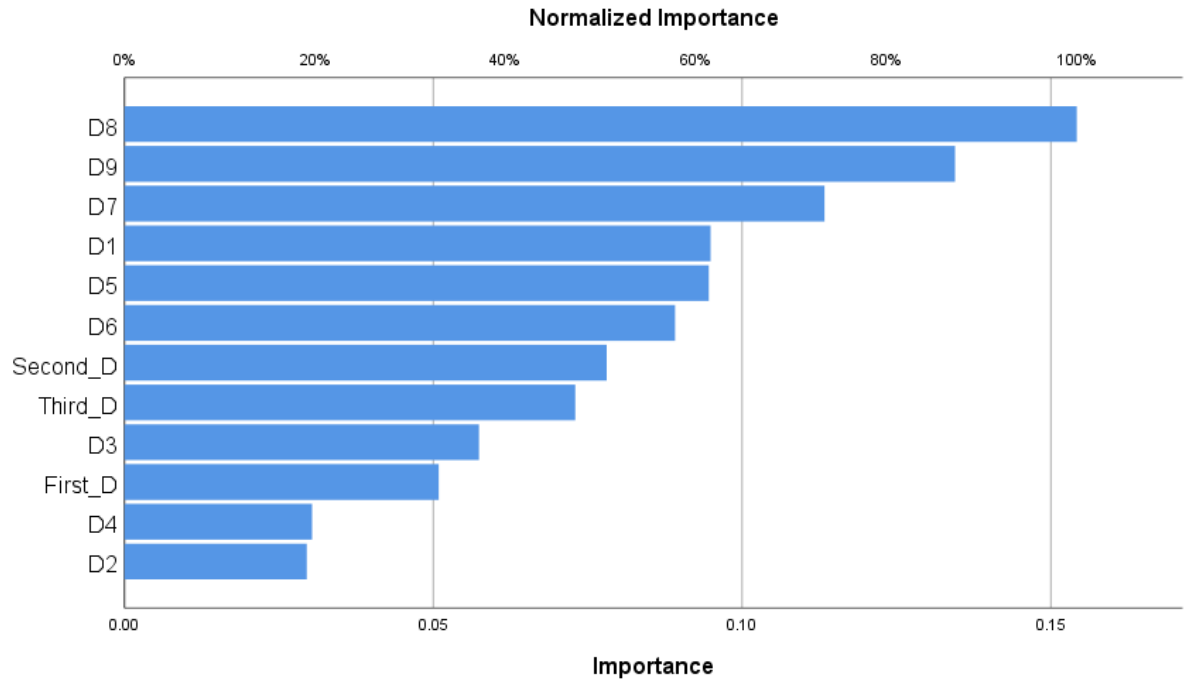
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	2	1	0	66.7%
	good option	0	4	0	100.0%
	best option	0	0	1	100.0%
	Overall Percent	25.0%	62.5%	12.5%	87.5%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance

First discourse in text	.051	33.0%
Second discourse in text	.078	50.6%
Third discourse in text	.073	47.3%
CONTACT RESTRICTION	.095	61.5%
SANITATION AND HYGIENE	.030	19.1%
ISOLATION OF INFECTED	.057	37.2%
TOTAL ISOLATION	.030	19.7%
HEALTH CARE	.095	61.4%
VIRUS DISSEMINATION	.089	57.8%
LIFESTYLE CHANGES	.113	73.5%
RIGHTS AND FREEDOMS INFRINGEMENT	.154	100.0%
BUREAUCRATIC RESPONSE	.134	87.2%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
```

```
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:23:24
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.44
	Elapsed Time	00:00:00.43

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

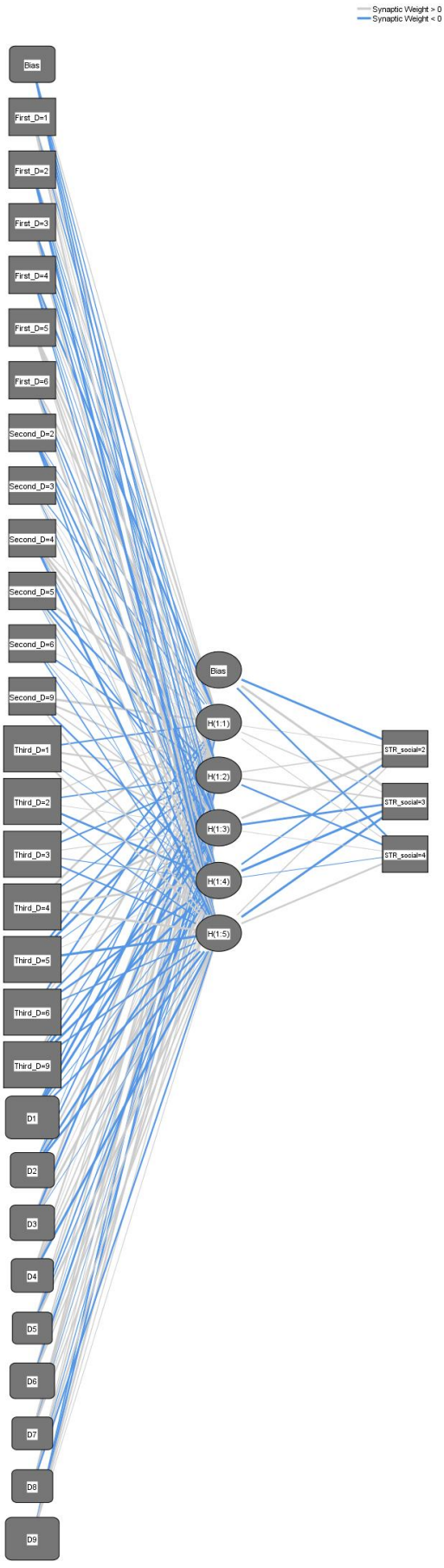
		N	Percent
Sample	Training	11	91.7%
	Testing	1	8.3%
Valid		12	100.0%
Excluded		92	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		28
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		5
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	8.311
	Percent Incorrect Predictions	36.4%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	.149
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted							
		Hidden Layer 1					Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	.130	-.142	-.220	-.251	-.257			
	[First_D=1]	.418	-.211	.206	.011	.424			
	[First_D=2]	.142	-.103	-.209	-.033	-.724			
	[First_D=3]	-.142	-.131	-.081	-.343	.327			
	[First_D=4]	-.441	.127	-.063	-.120	-.221			
	[First_D=5]	.194	.541	.142	.620	.182			
	[First_D=6]	.294	.023	-.267	-.138	.499			
	[Second_D=2]	-.084	.212	-.350	-.215	-.268			
	[Second_D=3]	-.170	.026	.116	-.119	.121			
	[Second_D=4]	.172	.536	.846	-.040	-.659			
	[Second_D=5]	.424	-.404	-.305	.273	-.049			
	[Second_D=6]	.004	-.292	.017	-.043	-.230			
	[Second_D=9]	.567	.365	.233	-.344	.300			

	[Third_D=1]	-.280	.391	.279	-.060	.335			
	[Third_D=2]	.137	-.253	.052	-.461	-.237			
	[Third_D=3]	.476	-.288	.107	-.102	-.296			
	[Third_D=4]	.467	-.215	.487	.485	.556			
	[Third_D=5]	-.414	-.593	-.091	.032	-.963			
	[Third_D=6]	-.363	.158	-.338	-.456	-.244			
	[Third_D=9]	.430	-.171	-.570	-.761	-.307			
	D1	-.222	-.662	-.715	-.104	-.347			
	D2	-.028	-.259	.386	-.513	-.552			
	D3	.670	-.441	.043	.710	-.061			
	D4	.372	.038	.233	.299	-.713			
	D5	.185	.272	-.267	-.184	.542			
	D6	.253	-.009	-.440	.238	.231			
	D7	.452	.797	-.080	.133	.254			
	D8	.102	.290	-.129	.406	-.301			
	D9	-.284	-.394	.427	.126	.075			
Hidden Layer 1	(Bias)						-.518	.690	-.373
	H(1:1)						.069	.157	.108
	H(1:2)						.196	.256	-.329
	H(1:3)						.737	-.459	.064
	H(1:4)						-.310	-.731	-.072
	H(1:5)						.198	-.573	.376

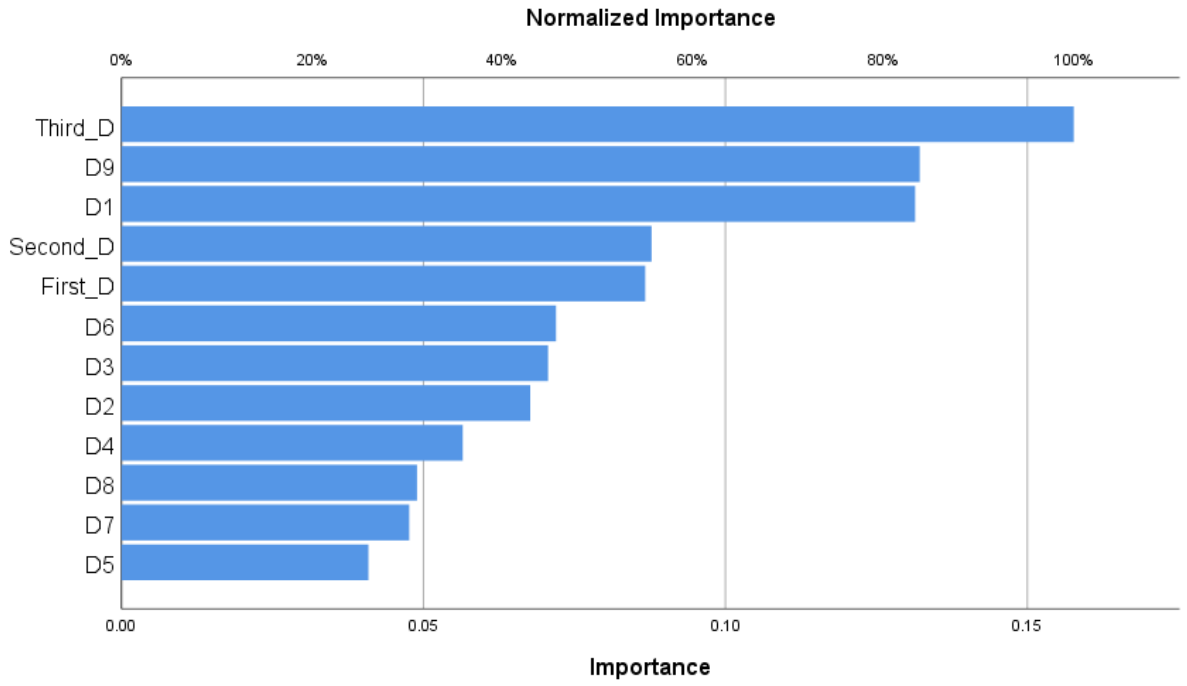
Classification

		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	1	2	0	33.3%
	good option	0	6	0	100.0%
	best option	0	2	0	0.0%
	Overall Percent	9.1%	90.9%	0.0%	63.6%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.087	55.0%
Second discourse in text	.088	55.7%
Third discourse in text	.158	100.0%
CONTACT RESTRICTION	.131	83.3%
SANITATION AND HYGIENE	.068	42.9%
ISOLATION OF INFECTED	.071	44.8%
TOTAL ISOLATION	.057	35.8%
HEALTH CARE	.041	25.9%
VIRUS DISSEMINATION	.072	45.6%
LIFESTYLE CHANGES	.048	30.2%
RIGHTS AND FREEDOMS INFRINGEMENT	.049	31.0%
BUREAUCRATIC RESPONSE	.132	83.8%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
```

```
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:23:56
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.44
	Elapsed Time	00:00:00.41

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

The following independent variables are constant in the training sample and are excluded from the analysis: D7.

Case Processing Summary

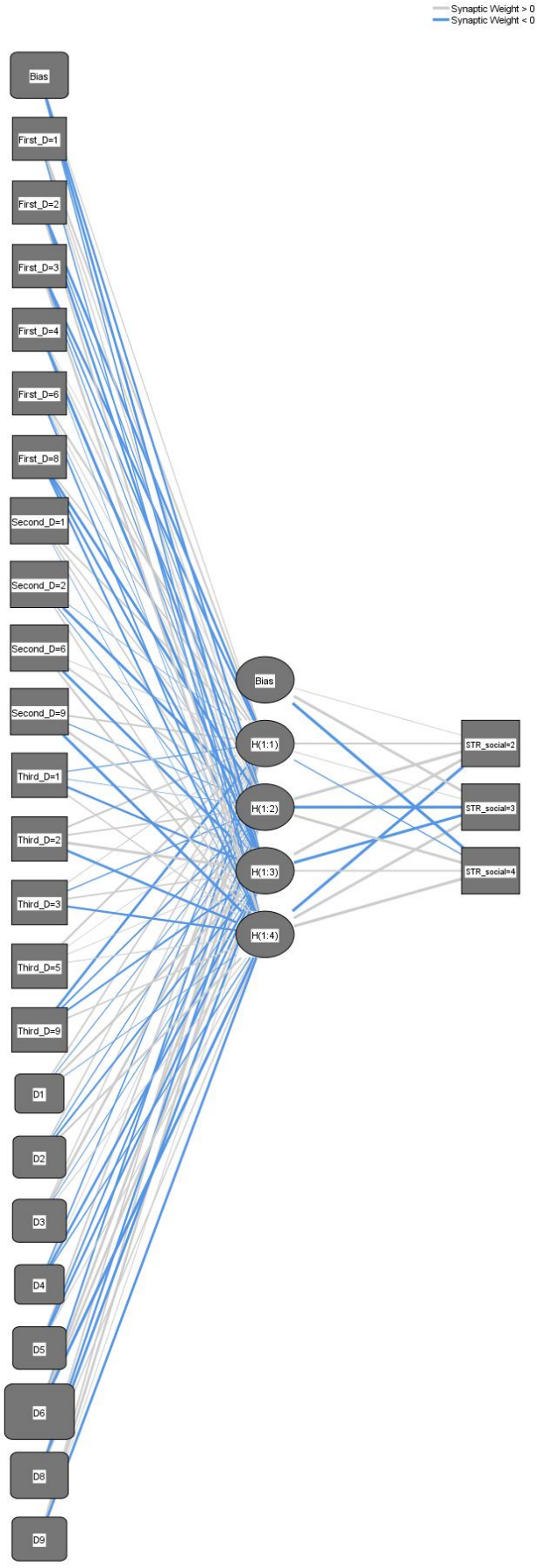
		N	Percent
Sample	Training	8	88.9%
	Testing	1	11.1%
Valid		9	100.0%
Excluded		95	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	RIGHTS AND FREEDOMS INFRINGEMENT

		8	BUREAUCRATIC RESPONSE
	Number of Units[a]		23
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		4
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	1.823
	Percent Incorrect Predictions	12.5%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.01
Testing	Cross Entropy Error	.001
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted						
		Hidden Layer 1				Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	[STR_social=2]	[STR_social=3]	[STR_social=4]
Input Layer	(Bias)	.182	-.609	-.746	-.359			
	[First_D=1]	.522	.263	.224	-.341			
	[First_D=2]	-.779	-.201	-.700	.455			
	[First_D=3]	-.700	-.423	-.185	.679			
	[First_D=4]	.029	.380	-1.200	-.033			
	[First_D=6]	.583	.101	-.033	-.426			
	[First_D=8]	.403	-.968	-.666	-.564			
	[Second_D=1]	.429	.351	.360	-.024			
	[Second_D=2]	-.017	-1.088	-.168	.368			
	[Second_D=6]	.119	.494	-.893	.556			
	[Second_D=9]	.521	-.178	.688	-1.217			
	[Third_D=1]	-.183	-.004	-.661	.286			
	[Third_D=2]	.539	.424	1.049	-.800			
	[Third_D=3]	.143	-.237	.390	-.619			
	[Third_D=5]	.590	.038	.049	.147			
	[Third_D=9]	-.806	-.404	-.545	.384			
	D1	.398	-.164	.672	-.080			
	D2	.376	-.197	-.528	.569			
	D3	.211	.834	-.124	.165			

	D4	-.373	.057	-.694	-.349			
	D5	.429	-.437	-.641	.190			
	D6	-.529	.993	.744	-1.377			
	D8	.397	-.669	-.920	.302			
	D9	.407	.777	.107	-.792			
Hidden Layer 1	(Bias)					.072	1.087	-1.762
	H(1:1)					.440	.106	-.194
	H(1:2)					1.551	-2.415	1.040
	H(1:3)					1.342	-1.337	.391
	H(1:4)					-1.421	1.305	1.594

Classification

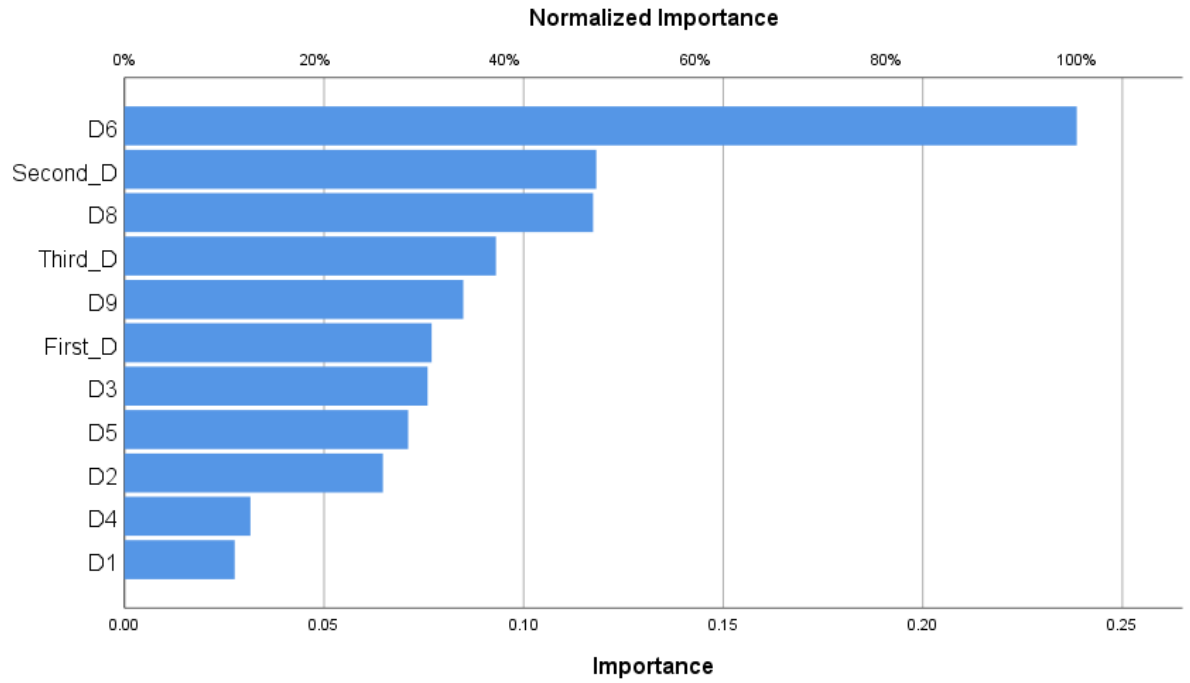
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	3	0	0	100.0%
	good option	0	4	0	100.0%
	best option	0	1	0	0.0%
	Overall Percent	37.5%	62.5%	0.0%	87.5%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.077	32.2%
Second discourse in text	.118	49.5%
Third discourse in text	.093	39.0%
CONTACT RESTRICTION	.028	11.6%
SANITATION AND HYGIENE	.065	27.1%
ISOLATION OF INFECTED	.076	31.8%
TOTAL ISOLATION	.032	13.2%
HEALTH CARE	.071	29.8%
VIRUS DISSEMINATION	.239	100.0%

RIGHTS AND FREEDOMS INFRINGEMENT	.117	49.2%
BUREAUCRATIC RESPONSE	.085	35.6%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:24:15
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.42
	Elapsed Time	00:00:00.44

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

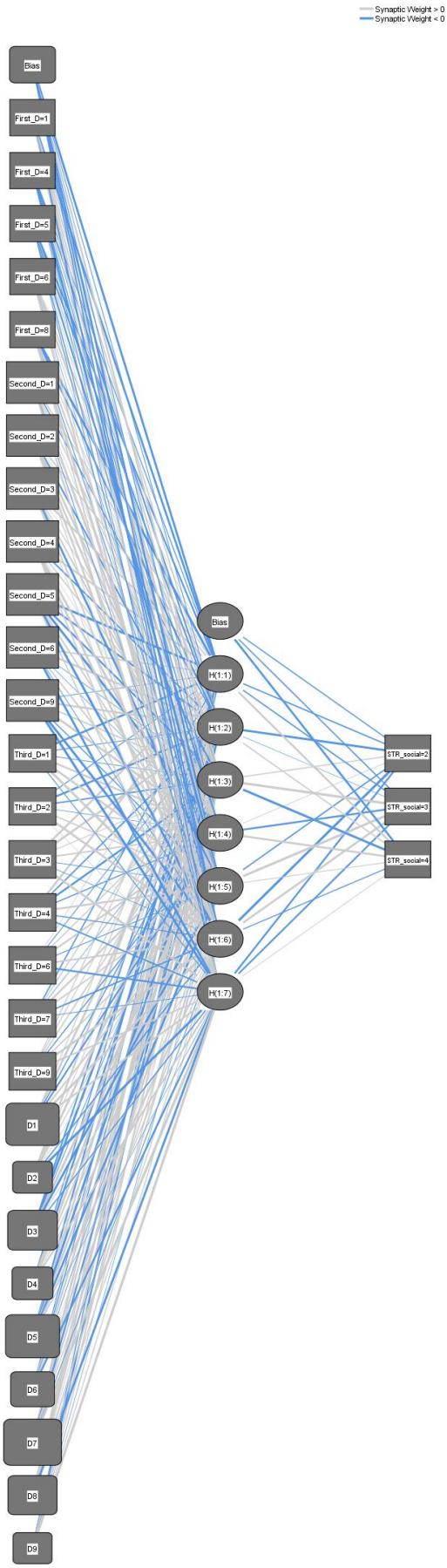
		N	Percent
Sample	Training	11	91.7%
	Testing	1	8.3%
Valid		12	100.0%
Excluded		92	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		28
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		7
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	2.787
	Percent Incorrect Predictions	9.1%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	.280
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted									
		Hidden Layer 1							Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	[STR_social=2]	[STR_social=3]	[STR_social=4]
Input Layer	(Bias)	-.637	-.097	.474	-.128	-.621	-.329	-.247			
	[First_D=1]	-.583	.257	.291	.376	.376	-.412	.233			
	[First_D=4]	-.137	-.335	-.046	-.142	-.991	-.064	-.050			
	[First_D=5]	-.414	-.371	.301	-.418	.049	-.147	-.090			
	[First_D=6]	.014	.375	.582	.066	-.024	.132	.431			
	[First_D=8]	-.854	-.429	.106	.396	-.117	.992	.278			
	[Second_D=1]	.215	-.211	.178	.034	.764	-.086	.397			
	[Second_D=2]	.292	.032	-.388	.602	.586	.571	.110			
	[Second_D=3]	.473	.022	.157	.397	-.653	.386	.059			
	[Second_D=4]	.533	-.320	.222	.020	.806	.794	.280			
	[Second_D=5]	-.934	-.439	-.476	-.911	.339	-.905	.272			
	[Second_D=6]	.349	.652	-.060	-.035	.312	-.081	-.721			
	[Second_D=9]	-.067	.589	.315	.808	-.187	-.866	-.975			
	[Third_D=1]	-.602	-.117	-.073	.509	.625	1.029	-.118			
	[Third_D=2]	-.155	-.564	-.288	-.039	.270	.674	.030			
	[Third_D=3]	.611	.716	.118	.332	-.060	-.045	.744			
	[Third_D=4]	.622	-.283	-.526	-.196	.511	-.168	-.327			
	[Third_D=6]	.049	-.106	.232	.438	-.107	.441	-.448			
	[Third_D=7]	-.259	.222	-.041	.505	.295	-.331	-.097			

	[Third_D=9]	.189	.143	.271	-.204	.316	.722	.392			
	D1	.146	.660	-.203	-.411	.378	.902	.450			
	D2	.519	.105	.715	.156	.042	-.243	-.856			
	D3	-.350	-.767	-.079	1.009	-.710	.098	-.220			
	D4	-.193	-.494	.845	.401	.218	.115	.433			
	D5	-.430	.444	-.877	.581	-.647	.528	-.013			
	D6	-.136	-.188	.550	-.053	.041	.208	-.476			
	D7	.620	.377	-.464	.403	.173	-.108	1.090			
	D8	.292	.844	.488	.046	.370	.170	-.685			
	D9	-.151	-.538	.363	.218	-.020	.147	1.199			
Hidden Layer 1	(Bias)								-.204	-.249	-.606
	H(1:1)								-.278	-.262	.563
	H(1:2)								-.702	-.006	.248
	H(1:3)								.228	1.040	-.873
	H(1:4)								.059	-.453	.594
	H(1:5)								-.281	.939	.109
	H(1:6)								-.963	.651	-.172
	H(1:7)								-.455	-.429	.075

Classification

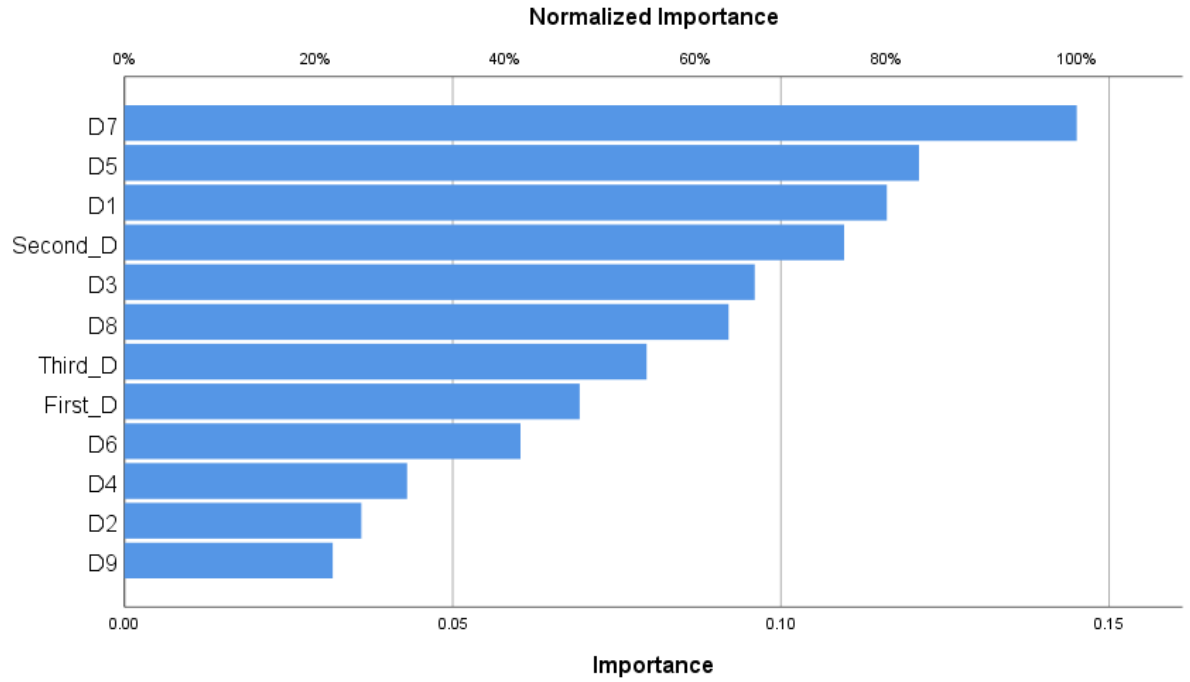
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	3	1	0	75.0%
	good option	0	5	0	100.0%
	best option	0	0	2	100.0%
	Overall Percent	27.3%	54.5%	18.2%	90.9%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.069	47.8%
Second discourse in text	.110	75.6%
Third discourse in text	.080	54.8%

CONTACT RESTRICTION	.116	80.1%
SANITATION AND HYGIENE	.036	24.9%
ISOLATION OF INFECTED	.096	66.2%
TOTAL ISOLATION	.043	29.7%
HEALTH CARE	.121	83.4%
VIRUS DISSEMINATION	.060	41.6%
LIFESTYLE CHANGES	.145	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.092	63.4%
BUREAUCRATIC RESPONSE	.032	21.9%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:24:21
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.47
	Elapsed Time	00:00:00.49

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

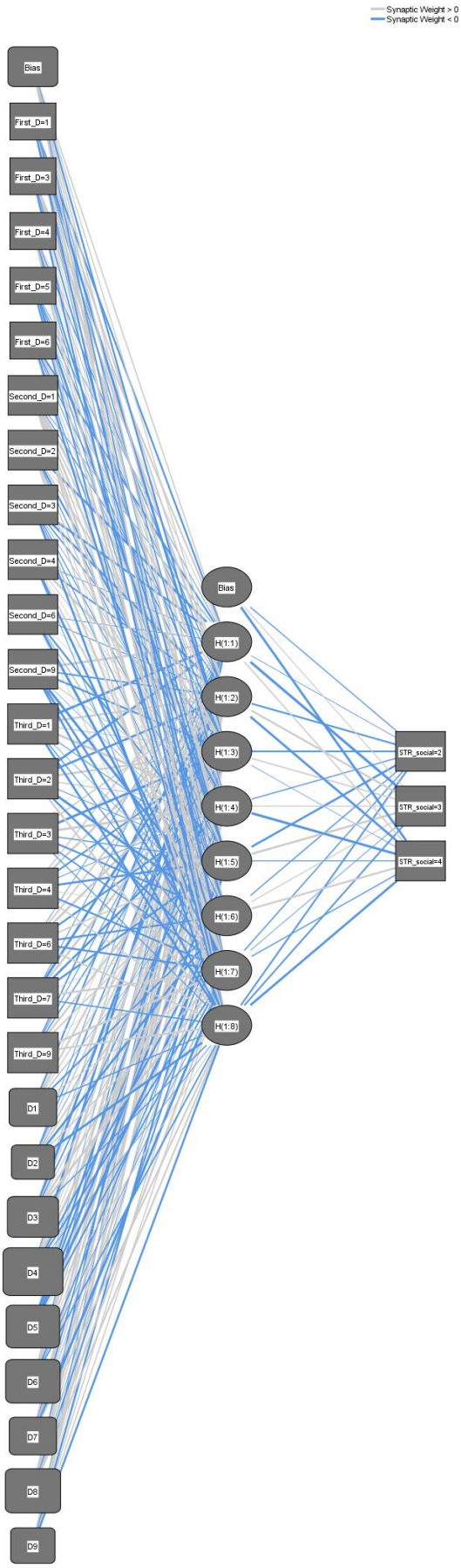
		N	Percent
Sample	Training	11	91.7%
	Testing	1	8.3%
Valid		12	100.0%
Excluded		92	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		27
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		8
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	8.419
	Percent Incorrect Predictions	36.4%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	.553
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted										
		Hidden Layer 1								Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	.205	.173	-.306	.226	.219	-.016	-.208	.345			
	[First_D=1]	-.314	.280	-.481	-.194	.386	.217	-.332	-.020			
	[First_D=3]	.308	.471	.391	.093	-.244	.042	.138	-.314			
	[First_D=4]	.098	-.169	.134	.043	-.302	-.135	.182	.282			
	[First_D=5]	-.048	-.131	-.220	-.003	-.460	-.114	.280	-.275			
	[First_D=6]	-.325	.254	-.179	-.070	.104	-.150	-.354	.026			
	[Second_D=1]	-.060	-.154	.454	.225	.420	.206	.432	.384			
	[Second_D=2]	-.459	.015	.275	-.326	-.153	.249	.074	.231			
	[Second_D=3]	-.399	-.423	-.216	-.009	-.146	-.142	.372	-.373			
	[Second_D=4]	-.064	-.271	.448	.113	.018	.253	-.424	-.071			
	[Second_D=6]	-.069	-.126	.018	.005	-.303	-.034	-.508	.052			
	[Second_D=9]	.430	-.262	-.335	.158	-.001	-.531	-.390	-.360			
	[Third_D=1]	-.473	.358	.153	.516	-.108	-.020	-.157	-.411			

	[Third_D=2]	-.436	-.388	.358	.190	-.075	-.533	-.370	.338			
	[Third_D=3]	.007	.251	-.476	.488	-.158	-.308	-.242	-.134			
	[Third_D=4]	.221	.403	-.292	-.077	-.371	.031	-.322	.242			
	[Third_D=6]	-.061	.267	.482	-.341	.245	-.337	-.340	.305			
	[Third_D=7]	-.079	-.536	.408	-.387	-.347	.047	.345	-.211			
	[Third_D=9]	-.227	-.114	-.189	.369	.251	.008	.462	.344			
	D1	-.288	.092	.339	.177	-.014	-.269	.150	-.193			
	D2	-.063	-.231	.238	-.042	.282	-.413	.225	-.442			
	D3	.281	-.513	.119	-.216	.160	.389	.468	-.170			
	D4	-.491	.545	.115	.081	.565	-.324	-.294	-.061			
	D5	-.020	.418	-.361	-.343	-.424	-.675	-.267	.102			
	D6	-.165	.633	.194	.301	.081	-.226	-.063	-.249			
	D7	.510	.256	-.244	.247	-.011	.243	-.588	.288			
	D8	-.318	.399	.261	.180	-.051	-.261	.365	.282			
	D9	-.143	.360	.357	.062	-.351	.197	.186	-.347			
Hidden Layer	(Bias)									-.151	.131	-.437
1	H(1:1)									-.048	-.632	.199
	H(1:2)									-.287	.351	-.424
	H(1:3)									-.302	.214	-.018
	H(1:4)									-.159	.156	-.496
	H(1:5)									-.386	.394	-.120
	H(1:6)									-.180	.146	.343
	H(1:7)									-.192	-.054	-.164
	H(1:8)									-.281	-.271	-.425

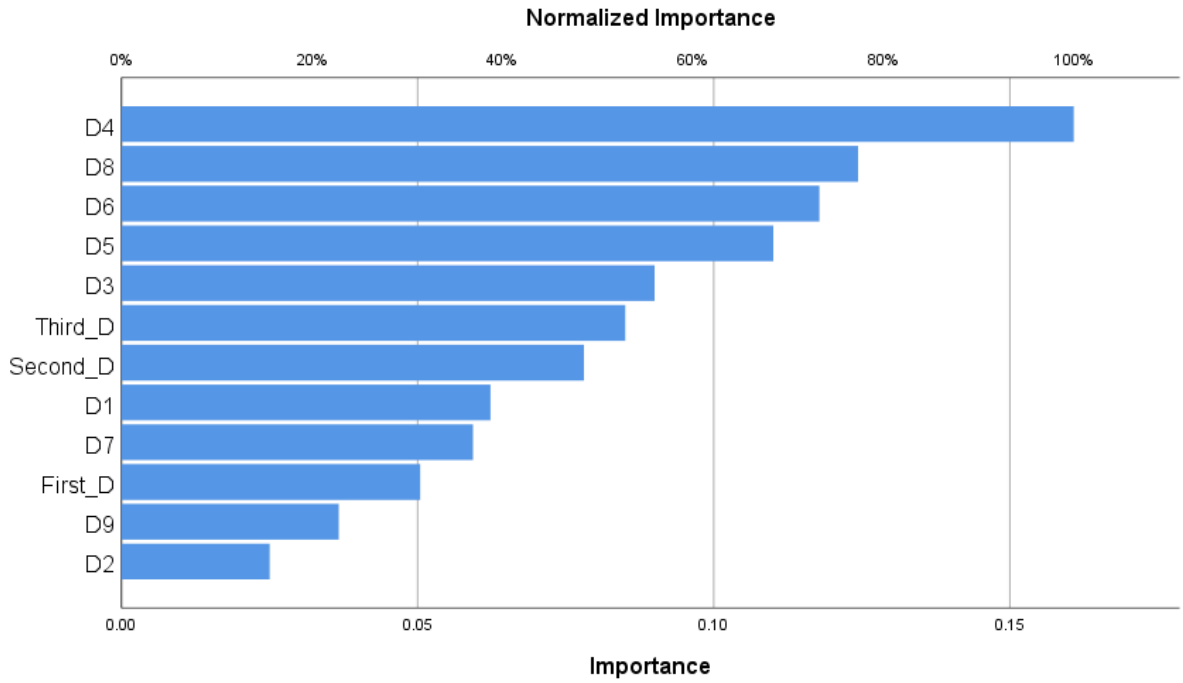
Classification

		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	1	3	0	25.0%
	good option	0	4	1	80.0%
	best option	0	0	2	100.0%
	Overall Percent	9.1%	63.6%	27.3%	63.6%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.050	31.4%
Second discourse in text	.078	48.6%
Third discourse in text	.085	52.9%
CONTACT RESTRICTION	.062	38.8%
SANITATION AND HYGIENE	.025	15.6%
ISOLATION OF INFECTED	.090	56.0%
TOTAL ISOLATION	.161	100.0%
HEALTH CARE	.110	68.4%
VIRUS DISSEMINATION	.118	73.3%
LIFESTYLE CHANGES	.059	36.9%
RIGHTS AND FREEDOMS INFRINGEMENT	.124	77.4%
BUREAUCRATIC RESPONSE	.037	22.8%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
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  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:26:17
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.39
	Elapsed Time	00:00:00.40

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

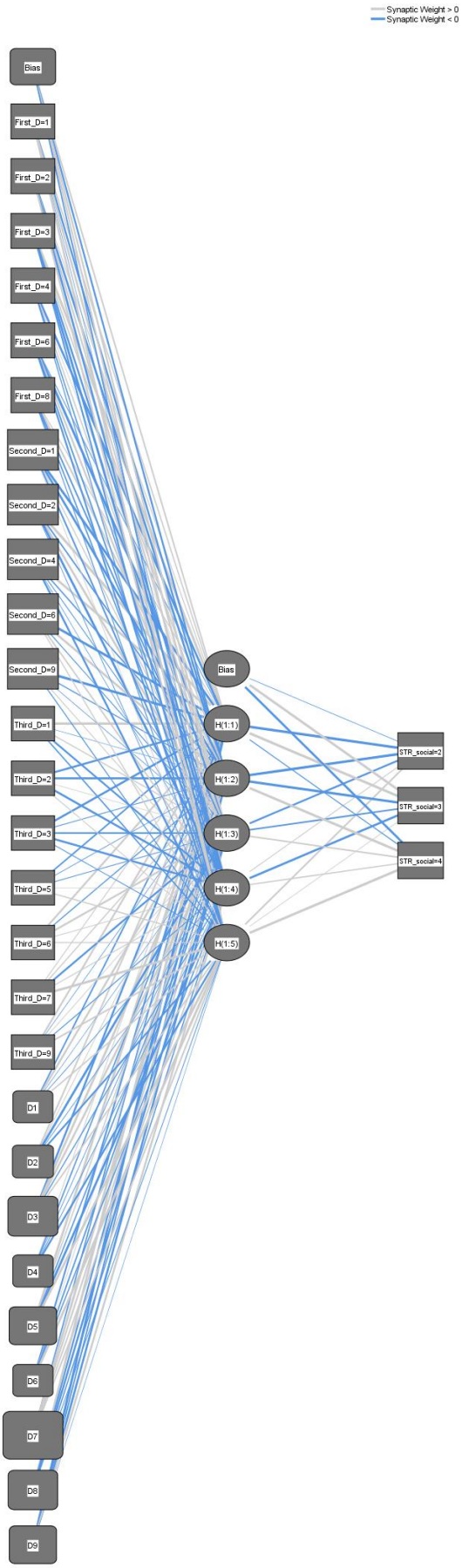
		N	Percent
Sample	Training	11	84.6%
	Testing	2	15.4%
Valid		13	100.0%
Excluded		91	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		27
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		5
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	1.444
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.01
Testing	Cross Entropy Error	.428
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted							
		Hidden Layer 1					Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	.311	-.381	.388	.330	-.264			
	[First_D=1]	.242	-.409	.521	-.021	.559			
	[First_D=2]	.112	-.553	.354	-.519	.384			
	[First_D=3]	.783	.257	-.399	-.643	-.325			
	[First_D=4]	-.577	.013	.212	-.212	-.134			
	[First_D=6]	-.072	-.725	.371	-.285	-.358			
	[First_D=8]	.137	.359	-.282	-.244	-.110			
	[Second_D=1]	-.658	-.593	.176	-.319	.045			
	[Second_D=2]	.994	-.279	.556	-.627	-.062			
	[Second_D=4]	.655	-.237	-.085	-.038	-.447			
	[Second_D=6]	-.748	.597	-.091	.294	.165			
	[Second_D=9]	-1.014	-.155	-.041	.090	-.138			
	[Third_D=1]	.961	-.008	.180	-.396	-.248			
	[Third_D=2]	-.468	-.556	.033	-.532	.090			

	[Third_D=3]	-.549	-.082	-.309	-.479	-.087			
	[Third_D=5]	-.296	-.053	-.084	.011	.220			
	[Third_D=6]	.415	-.166	.445	.079	.156			
	[Third_D=7]	.102	.185	-.440	.127	.715			
	[Third_D=9]	.390	-.037	.061	-.115	.329			
	D1	-.287	.462	-.013	-.065	.266			
	D2	.330	.069	-.609	-.047	-.362			
	D3	-.459	.602	.495	-.155	.279			
	D4	.071	-.234	-.053	-.070	-.417			
	D5	.655	.192	-.218	-.599	.663			
	D6	-.330	.030	-.259	-.203	.680			
	D7	-.252	.790	.350	.280	.324			
	D8	.628	-.331	-.454	-.211	-.073			
	D9	-.676	-.271	-.521	.464	-.004			
Hidden Layer	(Bias)						-.044	.842	-.614
1	H(1:1)						-1.292	1.477	-.139
	H(1:2)						-1.178	-.799	1.250
	H(1:3)						-.410	-.301	.287
	H(1:4)						.107	-.595	.233
	H(1:5)						.361	.046	1.208

Classification

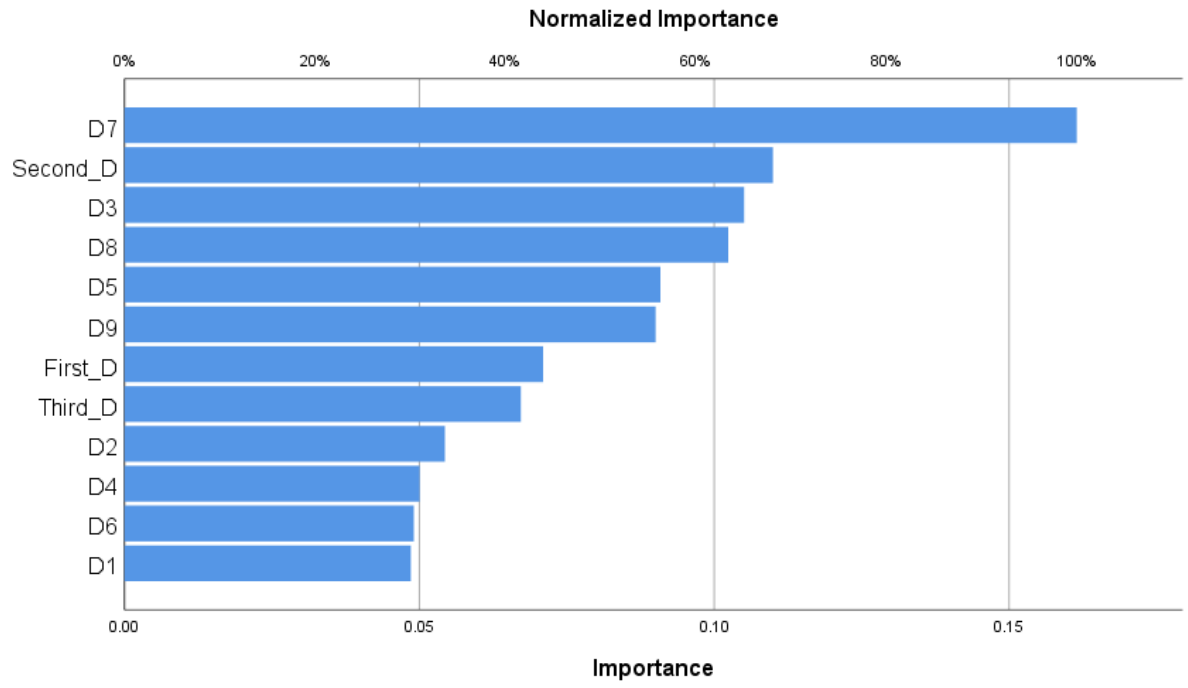
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	3	0	0	100.0%
	good option	0	6	0	100.0%
	best option	0	0	2	100.0%
	Overall Percent	27.3%	54.5%	18.2%	100.0%
Testing	mediocre option	0	0	0	0.0%
	good option	0	2	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.071	44.0%

Second discourse in text	.110	68.1%
Third discourse in text	.067	41.6%
CONTACT RESTRICTION	.049	30.1%
SANITATION AND HYGIENE	.054	33.6%
ISOLATION OF INFECTED	.105	65.1%
TOTAL ISOLATION	.050	31.0%
HEALTH CARE	.091	56.3%
VIRUS DISSEMINATION	.049	30.4%
LIFESTYLE CHANGES	.161	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.102	63.4%
BUREAUCRATIC RESPONSE	.090	55.8%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
```

```
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:27:09
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.50
	Elapsed Time	00:00:00.49

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

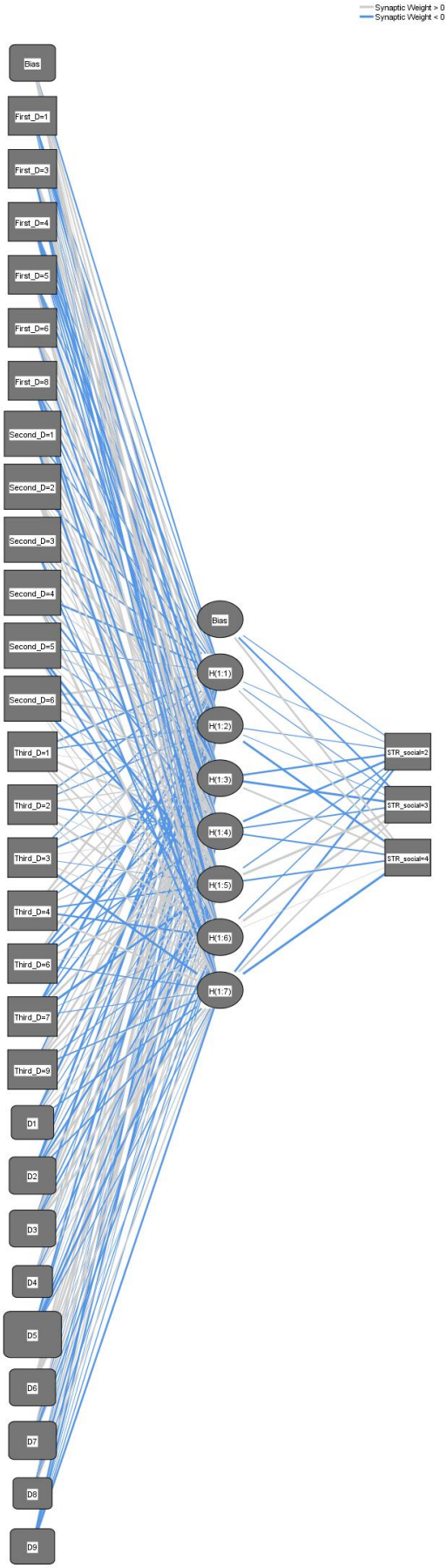
		N	Percent
Sample	Training	11	84.6%
	Testing	2	15.4%
Valid		13	100.0%
Excluded		91	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		28
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		7
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	8.108
	Percent Incorrect Predictions	18.2%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	.568
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted									
		Hidden Layer 1							Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	[STR_social=2]	[STR_social=3]	[STR_social=4]
Input Layer	(Bias)	-.324	.423	.301	.023	.611	.807	.064			
	[First_D=1]	-.194	-1.029	-.486	-.087	.296	-.030	-.051			
	[First_D=3]	.164	.442	.596	.620	-.222	-.501	-.118			
	[First_D=4]	-.145	-.372	-1.379	-.442	-.263	-.226	.017			
	[First_D=5]	-.109	-.581	.105	-.770	.111	.422	.307			
	[First_D=6]	.405	.268	-.157	.895	-.454	.070	.008			
	[First_D=8]	-.181	.252	-.474	-.185	.229	-.715	-.427			
	[Second_D=1]	-.278	.106	1.101	.404	.230	.508	-.921			
	[Second_D=2]	-.352	.034	.143	.446	.765	.454	.232			
	[Second_D=3]	-.323	.364	-.231	.157	.006	-.106	-.399			
	[Second_D=4]	-.540	.124	.617	-.426	.333	-.101	.956			
	[Second_D=5]	-.132	.282	-.165	.083	-1.009	-.509	.108			
	[Second_D=6]	.820	.564	.367	-.024	-.821	.280	.099			
	[Third_D=1]	-.480	-.299	.006	.633	.109	.466	.306			
	[Third_D=2]	-.345	-.253	.229	-.312	.096	.673	.195			
	[Third_D=3]	-.310	-.007	-.413	.008	-.063	.128	-.873			
	[Third_D=4]	.715	.346	-.237	.208	-.337	-.429	.489			
	[Third_D=6]	.503	-.506	-.588	-.329	.401	.055	-.214			
	[Third_D=7]	-.970	-.192	-.418	.678	-.977	-.055	-.119			

	[Third_D=9]	-.321	.258	.717	.693	.348	-.181	-.298			
	D1	.206	-.831	.308	-.133	.094	.346	-.306			
	D2	-.769	-.242	.169	-.279	-.590	.891	-.337			
	D3	-.692	.627	.648	-.256	-.386	.785	1.092			
	D4	-.089	.806	-.048	.037	-.288	.188	.138			
	D5	-.482	-.308	.016	-.067	-.427	-.731	-.222			
	D6	.362	.170	.391	.703	.190	.226	.421			
	D7	1.349	-.051	-.035	.615	-.165	-.302	-.003			
	D8	-.063	-.103	.342	-.397	.127	-.174	.269			
	D9	-.517	.048	-.421	-.054	-.051	-.184	-.471			
Hidden Layer 1	(Bias)								-.133	-.430	.492
	H(1:1)								-.071	-.139	.357
	H(1:2)								-.139	-.076	-.648
	H(1:3)								-.494	-.735	.452
	H(1:4)								-.580	-.306	-.317
	H(1:5)								-.253	1.334	-.366
	H(1:6)								-.210	.941	.008
	H(1:7)								-.528	.364	-.832

Classification

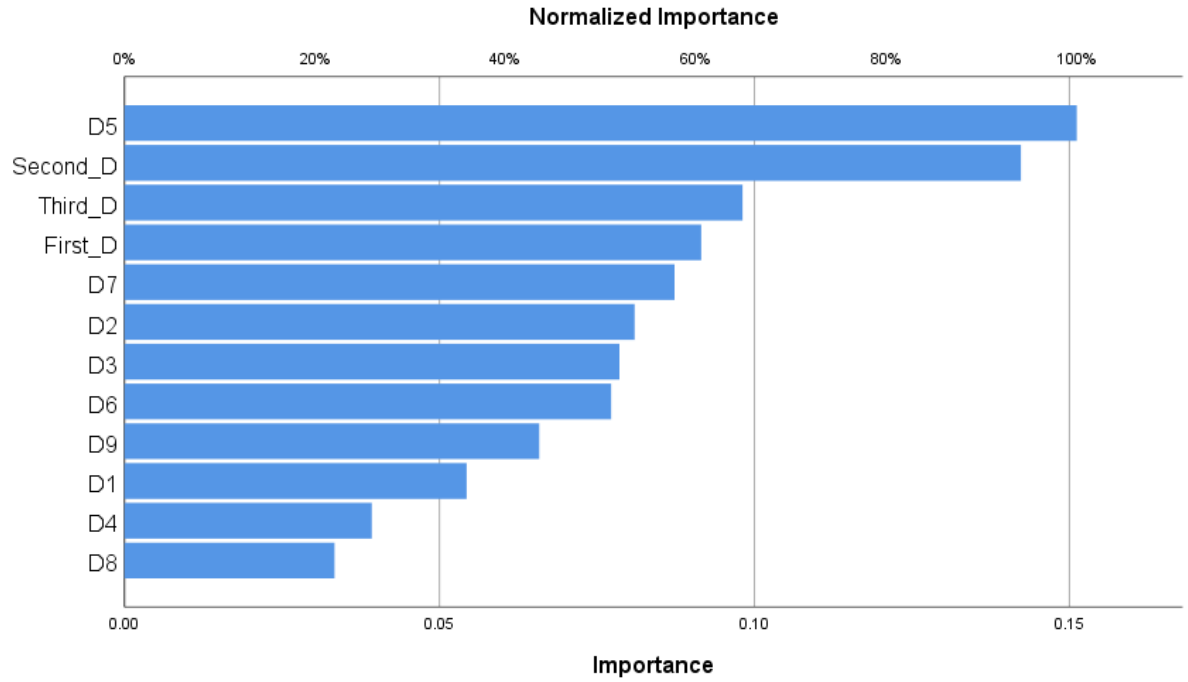
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	2	1	0	66.7%
	good option	0	5	0	100.0%
	best option	0	1	2	66.7%
	Overall Percent	18.2%	63.6%	18.2%	81.8%
Testing	mediocre option	0	0	0	0.0%
	good option	0	2	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.092	60.6%
Second discourse in text	.142	94.1%
Third discourse in text	.098	64.9%

CONTACT RESTRICTION	.054	35.9%
SANITATION AND HYGIENE	.081	53.6%
ISOLATION OF INFECTED	.079	52.0%
TOTAL ISOLATION	.039	26.0%
HEALTH CARE	.151	100.0%
VIRUS DISSEMINATION	.077	51.1%
LIFESTYLE CHANGES	.087	57.8%
RIGHTS AND FREEDOMS INFRINGEMENT	.033	22.0%
BUREAUCRATIC RESPONSE	.066	43.6%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:27:27
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.44
	Elapsed Time	00:00:00.45

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

The following independent variables are constant in the training sample and are excluded from the analysis: D7.

Case Processing Summary

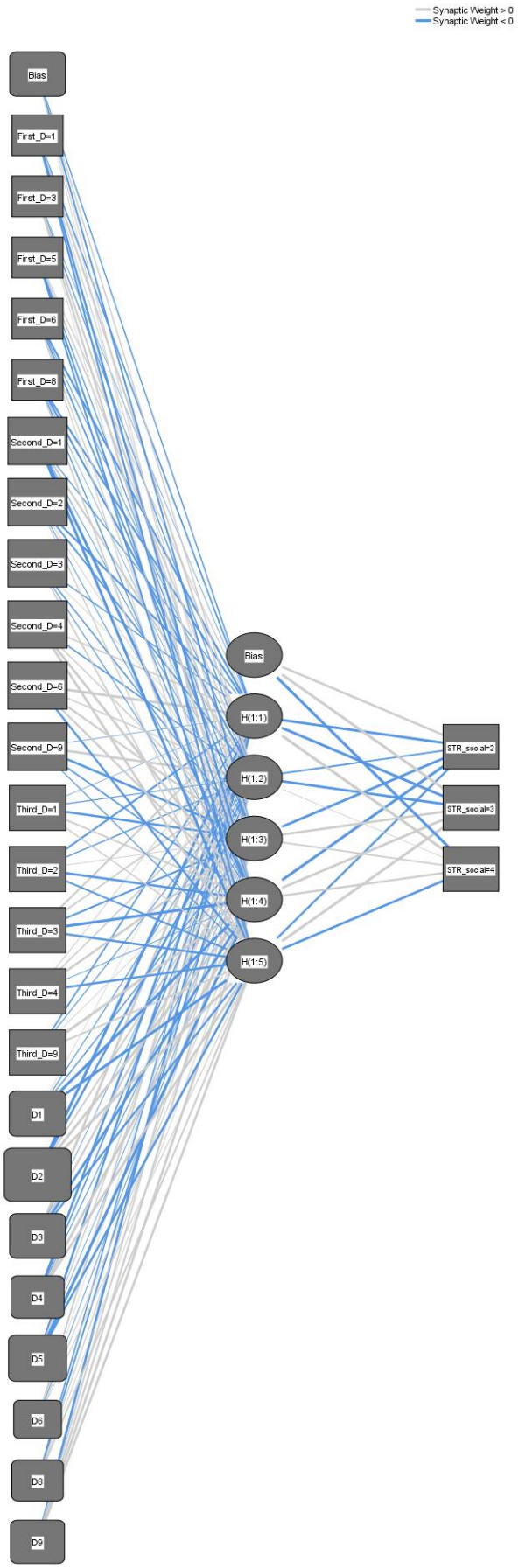
		N	Percent
Sample	Training	8	88.9%
	Testing	1	11.1%
Valid		9	100.0%
Excluded		95	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	RIGHTS AND FREEDOMS INFRINGEMENT

		8	BUREAUCRATIC RESPONSE
	Number of Units[a]		24
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		5
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.246
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.00
Testing	Cross Entropy Error	.003
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted							
		Hidden Layer 1					Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	-.270	.286	-.418	.122	.062			
	[First_D=1]	-.332	.506	.146	-.646	-.489			
	[First_D=3]	-.029	-.242	.472	.589	.045			
	[First_D=5]	.211	.304	-.211	-.456	-.434			
	[First_D=6]	-.563	-.114	-.349	.233	.156			
	[First_D=8]	-.523	-.519	-.011	-.259	.321			
	[Second_D=1]	-.214	.547	-.099	-1.559	-1.278			
	[Second_D=2]	-.588	-.394	.083	-.108	.263			
	[Second_D=3]	-.256	.034	-.302	-.159	.330			
	[Second_D=4]	.328	-.321	.290	.974	.971			
	[Second_D=6]	1.221	.309	.620	.627	-.673			
	[Second_D=9]	-.030	.835	-.738	-.361	-.223			
	[Third_D=1]	-.022	-.200	-.696	.417	.282			

	[Third_D=2]	-.521	-.302	.101	-.731	-.463			
	[Third_D=3]	.539	.400	-.498	-1.626	-.682			
	[Third_D=4]	.112	.316	.739	-.097	-.680			
	[Third_D=9]	-.335	-.181	.059	1.317	.423			
	D1	.004	-.186	-.280	-1.912	-1.594			
	D2	-1.784	-.684	.364	1.237	1.225			
	D3	.902	-.067	.577	-1.020	-.595			
	D4	-.693	-.311	-.148	1.464	.862			
	D5	-.674	.268	-.058	-1.838	-.684			
	D6	.446	.021	-.101	.177	.149			
	D8	-.303	-.403	.222	.080	.445			
	D9	-.878	.348	.535	.899	.722			
Hidden Layer	(Bias)						.697	1.492	-1.901
1	H(1:1)						-1.070	-1.496	2.214
	H(1:2)						-.367	-.984	.060
	H(1:3)						-1.116	.764	.366
	H(1:4)						-1.683	1.021	.631
	H(1:5)						-.670	1.515	-.863

Classification

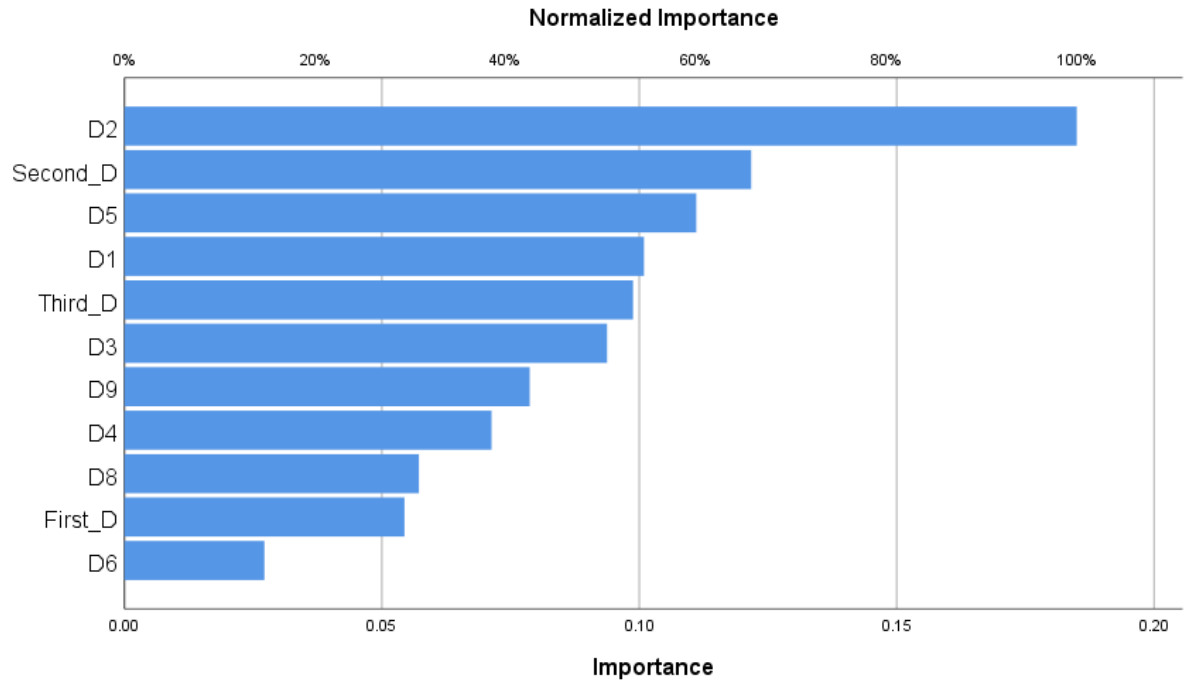
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	3	0	0	100.0%
	good option	0	4	0	100.0%
	best option	0	0	1	100.0%
	Overall Percent	37.5%	50.0%	12.5%	100.0%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.054	29.4%
Second discourse in text	.122	65.8%
Third discourse in text	.099	53.4%

CONTACT RESTRICTION	.101	54.6%
SANITATION AND HYGIENE	.185	100.0%
ISOLATION OF INFECTED	.094	50.7%
TOTAL ISOLATION	.071	38.5%
HEALTH CARE	.111	60.0%
VIRUS DISSEMINATION	.027	14.7%
RIGHTS AND FREEDOMS INFRINGEMENT	.057	30.9%
BUREAUCRATIC RESPONSE	.079	42.5%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:27:58
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.42
	Elapsed Time	00:00:00.44

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

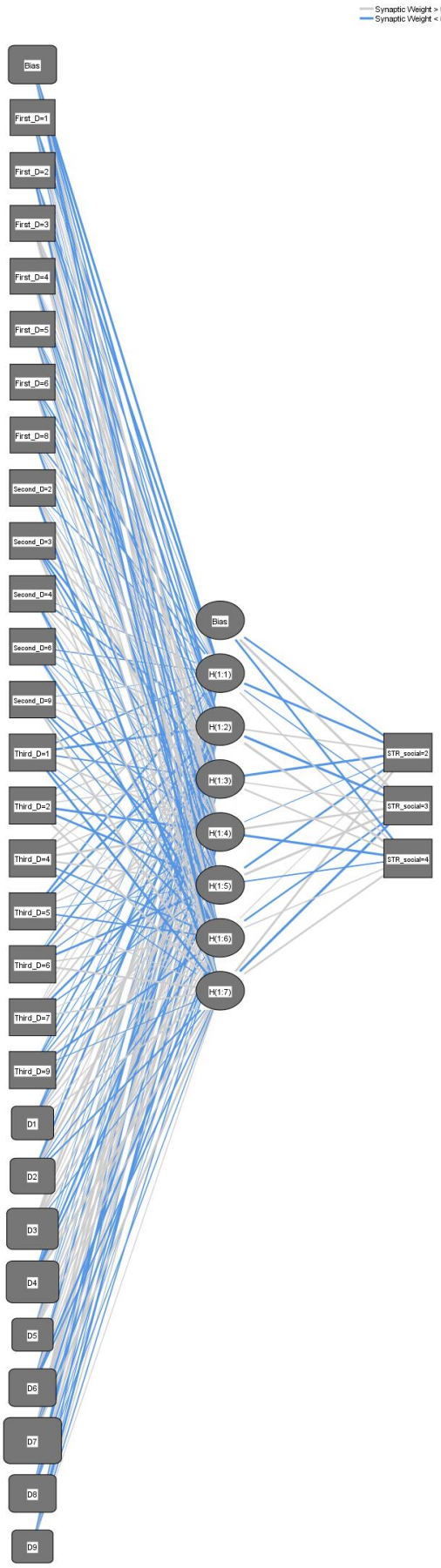
		N	Percent
Sample	Training	11	84.6%
	Testing	2	15.4%
Valid		13	100.0%
Excluded		91	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		28
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		7
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	5.992
	Percent Incorrect Predictions	36.4%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	.140
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted									
		Hidden Layer 1							Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	[STR_social=2]	[STR_social=3]	[STR_social=4]
Input Layer	(Bias)	-.888	-.989	-.274	1.274	-.431	-.542	.056			
	[First_D=1]	-.766	-.216	.054	.420	-.040	.054	-.151			
	[First_D=2]	-.051	-.639	-.489	.588	.181	.132	-.781			
	[First_D=3]	.376	.352	.862	.285	-.180	.540	.067			
	[First_D=4]	.062	-.018	.210	-.625	-.197	-.241	.670			
	[First_D=5]	-.047	-.354	-.204	.630	.734	-.422	.114			
	[First_D=6]	-.397	-.201	-.010	-.068	-.549	.167	.398			
	[First_D=8]	-.398	.265	.070	-.031	.019	-.472	-.012			
	[Second_D=2]	-.227	.017	-.030	1.135	.092	.256	-1.076			
	[Second_D=3]	.363	.505	-.647	-.593	-.279	.137	.426			
	[Second_D=4]	-.089	-.462	.535	.189	.131	-.841	-.018			
	[Second_D=6]	-.193	-.042	-.049	-.063	.355	-1.019	.007			
	[Second_D=9]	-.036	.231	.205	-.312	-.602	-.232	.946			
	[Third_D=1]	-.423	-.827	-.348	.496	-.026	-.488	-.934			
	[Third_D=2]	-.166	.293	.203	-.984	-.789	.060	.652			
	[Third_D=4]	.423	.377	.349	.741	.423	-.411	-.193			
	[Third_D=5]	-.711	-.887	.108	.332	-.063	-.407	.258			
	[Third_D=6]	-.039	-.589	.567	-.229	-.717	.297	.662			
	[Third_D=7]	.120	.108	.452	-.740	-.266	.074	.435			

	[Third_D=9]	-.029	-.446	-.087	-.264	.535	-.568	-.115			
	D1	-.058	-.587	-.153	.951	.326	.155	.372			
	D2	-.010	-.762	.188	1.199	-.122	-.248	-.468			
	D3	.001	1.277	.633	.076	.653	.498	-.189			
	D4	-.062	-.129	-.048	-.644	-.562	.363	1.509			
	D5	.237	-.130	-.099	.540	.427	.517	.214			
	D6	-.031	-.556	.458	.136	.370	-.686	-.388			
	D7	.544	1.644	.626	-.585	.379	-.466	.766			
	D8	-.205	-1.101	.037	.802	-.333	-.056	-.187			
	D9	-.289	.077	-.135	-.844	.249	-.239	.094			
Hidden Layer 1	(Bias)								-.564	1.185	-.650
	H(1:1)								-.873	-.193	.348
	H(1:2)								.416	-1.895	2.103
	H(1:3)								-1.057	.236	.480
	H(1:4)								-.105	.683	-1.094
	H(1:5)								-.723	.992	-.277
	H(1:6)								.098	-.502	.220
	H(1:7)								.726	-1.554	.554

Classification

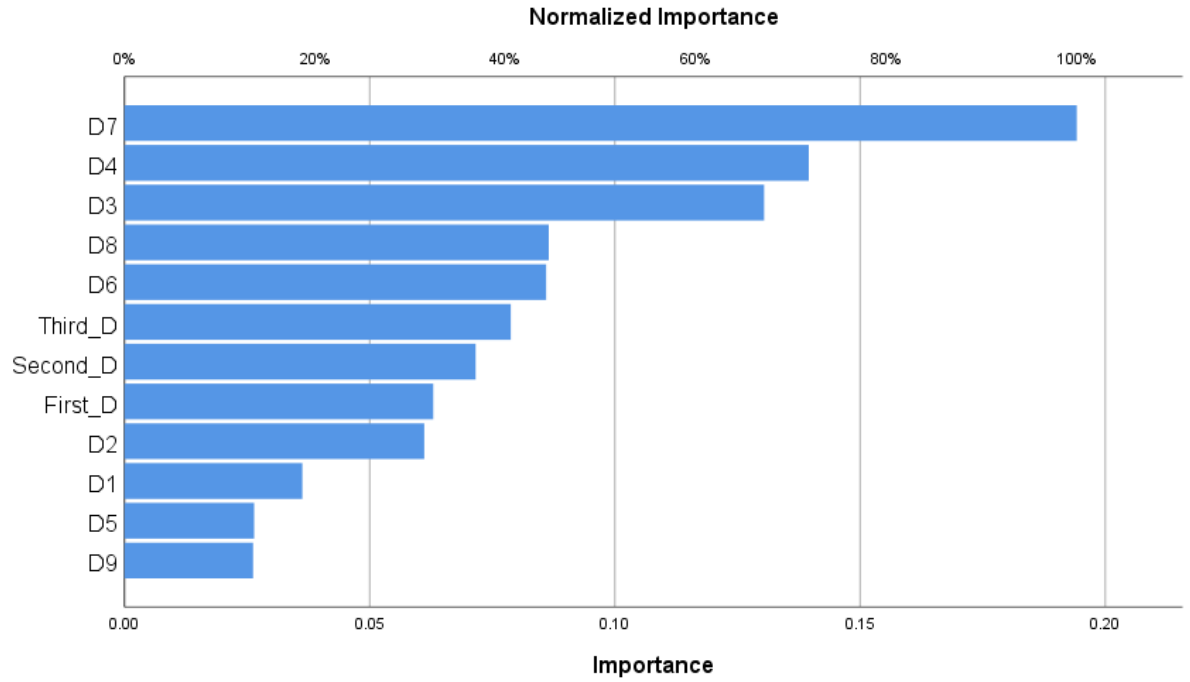
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	1	1	1	33.3%
	good option	1	5	0	83.3%
	best option	0	1	1	50.0%
	Overall Percent	18.2%	63.6%	18.2%	63.6%
Testing	mediocre option	0	0	0	0.0%
	good option	0	2	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.063	32.4%
Second discourse in text	.072	36.9%
Third discourse in text	.079	40.6%

CONTACT RESTRICTION	.036	18.7%
SANITATION AND HYGIENE	.061	31.5%
ISOLATION OF INFECTED	.130	67.2%
TOTAL ISOLATION	.140	71.9%
HEALTH CARE	.026	13.6%
VIRUS DISSEMINATION	.086	44.3%
LIFESTYLE CHANGES	.194	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.087	44.5%
BUREAUCRATIC RESPONSE	.026	13.5%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:29:41
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.39
	Elapsed Time	00:00:00.41

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

The following independent variables are constant in the training sample and are excluded from the analysis: D5.

Case Processing Summary

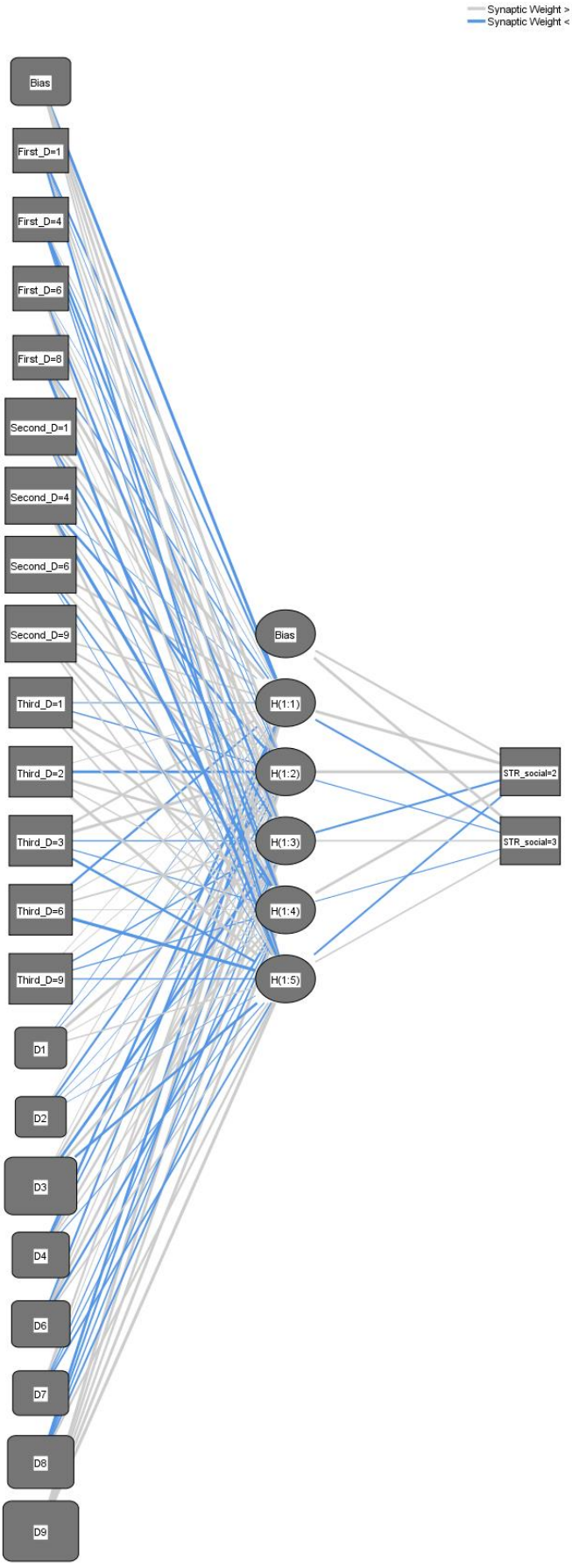
		N	Percent
Sample	Training	7	87.5%
	Testing	1	12.5%
Valid		8	100.0%
Excluded		96	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	VIRUS DISSEMINATION
		6	LIFESTYLE CHANGES
		7	RIGHTS AND FREEDOMS INFRINGEMENT

		8	BUREAUCRATIC RESPONSE
	Number of Units[a]		21
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		5
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		2
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	1.184
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.01
Testing	Cross Entropy Error	.416
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted						
		Hidden Layer 1					Output Layer	
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[STR_social =2]	[STR_social =3]
Input Layer	(Bias)	-.694	.649	.637	.215	.305		
	[First_D=1]	-.330	-.065	.276	.177	-.351		
	[First_D=4]	.112	-.115	-.459	-.231	-.135		
	[First_D=6]	-.016	.086	.249	-.439	.316		
	[First_D=8]	-.212	.815	.202	.043	-.653		
	[Second_D=1]	.748	.273	-.355	.418	-.123		
	[Second_D=4]	-.045	-.520	.166	-1.066	.649		
	[Second_D=6]	.402	.163	.357	-.297	-.070		
	[Second_D=9]	.251	.344	.632	.520	.262		
	[Third_D=1]	-.116	-.171	.477	.684	.306		
	[Third_D=2]	.076	-.580	.556	.167	.801		
	[Third_D=3]	.394	.781	-.161	-.134	-.432		
	[Third_D=6]	-.371	.113	.260	.052	-.890		
	[Third_D=9]	.065	.079	-.215	-.156	-.152		
	D1	-.043	-.078	.781	.086	.177		

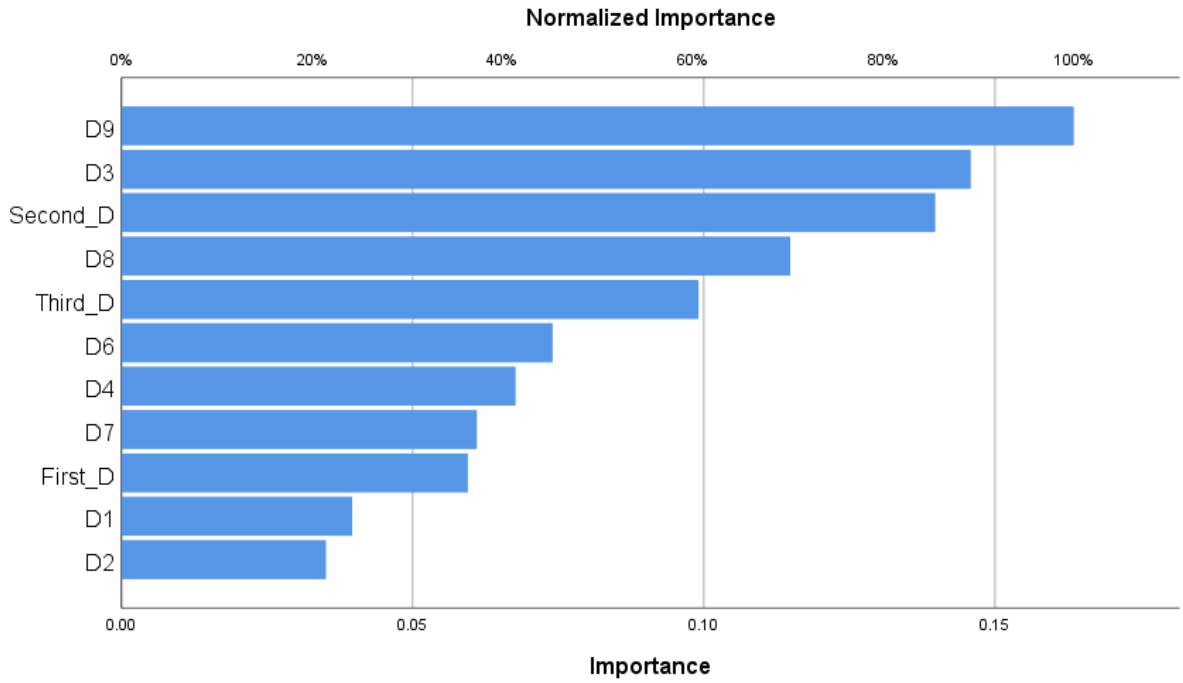
	D2	.095	-.341	-.040	-.042	-.030		
	D3	.078	.382	-.620	.544	-.493		
	D4	-.469	-.219	.485	.190	-.107		
	D6	-.339	.160	.527	-.377	.235		
	D7	.370	.092	-.154	-.134	-.288		
	D8	-.602	-.312	-.181	-.305	.359		
	D9	1.009	.530	.417	.650	.823		
Hidden Layer 1	(Bias)						.390	.635
	H(1:1)						.780	-.326
	H(1:2)						.799	-.129
	H(1:3)						-.327	.230
	H(1:4)						.568	-.099
	H(1:5)						-.310	.224

Classification

		Predicted		
Sample	Observed	mediocre option	good option	Percent Correct
Training	mediocre option	2	0	100.0%
	good option	0	5	100.0%
	Overall Percent	28.6%	71.4%	100.0%
Testing	mediocre option	1	0	100.0%
	good option	0	0	0.0%
	Overall Percent	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.059	36.4%
Second discourse in text	.140	85.5%
Third discourse in text	.099	60.6%
CONTACT RESTRICTION	.040	24.2%
SANITATION AND HYGIENE	.035	21.5%
ISOLATION OF INFECTED	.146	89.2%
TOTAL ISOLATION	.068	41.4%
VIRUS DISSEMINATION	.074	45.3%
LIFESTYLE CHANGES	.061	37.3%

RIGHTS AND FREEDOMS INFRINGEMENT	.115	70.2%
BUREAUCRATIC RESPONSE	.164	100.0%