```
*Multilayer Perceptron Network.
MLP everyday_life (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 16:04:48
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 everyday_life (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE 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	00:00:00.52
	Elapsed Time	00:00:00.56

Case Processing Summary

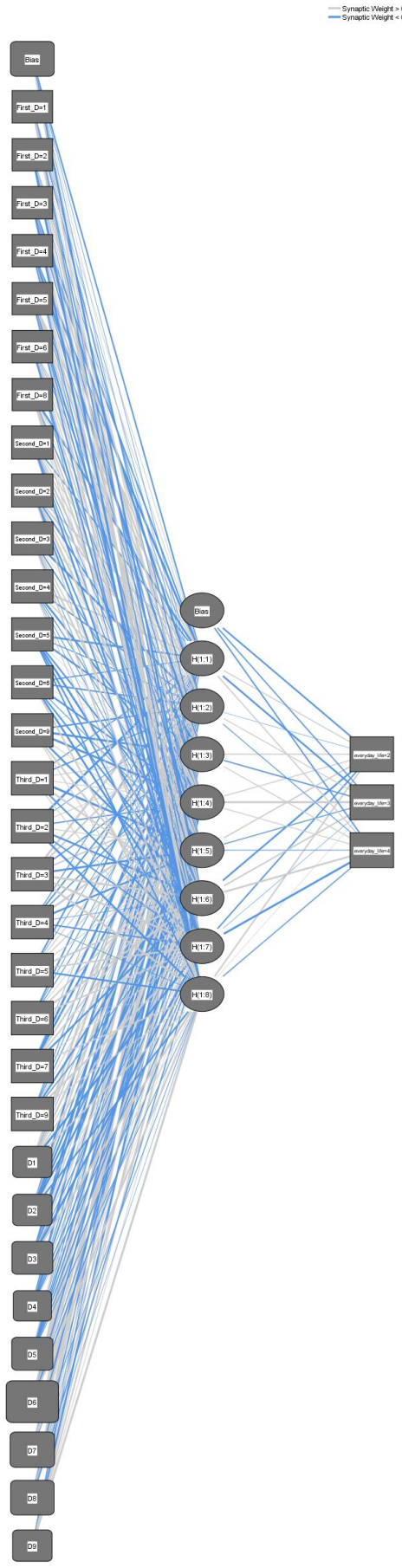
		N	Percent
Sample	Training	13	86.7%
	Testing	2	13.3%
Valid		15	100.0%
Excluded		89	
Total		104	

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	BUREAUCRATI C RESPONSE
	Number of Units[a]		31
	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	Changes in everyday life
	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	11.951
	Percent Incorrect Predictions	38.5%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	1.225
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

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)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	-.313	-.048	.034	-.055	.054	-.505	.037	.296			
	[First_D=1]	.059	-.045	-.237	.007	.052	-.223	-.218	.776			
	[First_D=2]	.079	-.057	.280	.085	-.061	.130	.128	-.847			
	[First_D=3]	-.342	-.855	.384	-.230	.024	.275	.102	-.765			
	[First_D=4]	-.696	.450	-.867	-.188	.193	.298	-.217	-.049			
	[First_D=5]	.304	.458	.291	.527	-.441	-.264	.451	-.290			
	[First_D=6]	.293	-.046	.067	.338	.182	.368	-.420	-.140			
	[First_D=8]	-.569	.174	.055	-.236	.322	.447	.063	.197			
	[Second_D=1]	-.266	.189	.243	.599	-.127	-.206	-.467	.032			
	[Second_D=2]	.437	.484	-.371	.240	.678	-.311	-.373	.272			
	[Second_D=3]	.132	-.762	.025	-.248	.238	.404	-.065	.349			
	[Second_D=4]	.520	-.281	.277	-.520	-.160	-.093	-.046	.143			
	[Second_D=5]	-.520	-.192	-.448	.026	-.372	-.647	-.388	-.327			

	[Second_D=6]	-.242	-.318	.027	-.398	-.110	-.352	-.527	.368			
	[Second_D=9]	.052	-.351	-.689	-.649	.077	-.509	.460	.187			
	[Third_D=1]	-.228	-.288	.129	.126	-.920	.451	-.379	.158			
	[Third_D=2]	-.898	-.084	.086	-.244	.154	-.456	-.288	-.585			
	[Third_D=3]	.831	.393	-.275	.325	-.583	.672	.625	.695			
	[Third_D=4]	-.164	-.312	-.242	.681	-.480	-.055	-.302	-.056			
	[Third_D=5]	-.337	-.067	.174	.210	.093	.453	.388	-.436			
	[Third_D=6]	-.319	-.099	-.136	.066	.326	.606	.362	.027			
	[Third_D=7]	-.029	-1.015	-.565	.406	.351	-.501	.083	.270			
	[Third_D=9]	-.111	-.101	-.170	.144	-.517	-.199	.495	.153			
	D1	.646	.653	-.035	.520	.172	.282	-.752	.317			
	D2	-.583	.370	-.268	-.472	-.444	-.513	.087	-.415			
	D3	-.736	-.408	.213	-.518	.248	-.140	-.691	.607			
	D4	-.744	.079	-.148	-.338	-.043	-.216	-.222	.116			
	D5	.579	-.053	-.158	-.364	-.243	-.268	-.207	-.083			
	D6	.523	.362	.906	-.392	.978	-.108	-.257	.467			
	D7	.200	.080	.533	-.429	.696	.055	.003	-.079			
	D8	.494	.341	-.303	.266	-.045	.402	-.231	-.015			
	D9	-.043	-.217	.087	-.501	.214	.421	.063	.731			
Hidden Layer 1	(Bias)									-.381	-.239	-.280
	H(1:1)									.197	-.447	.235
	H(1:2)									-.001	.182	-.132
	H(1:3)									.239	-.244	.191
	H(1:4)									.189	.628	.156
	H(1:5)									.280	-.174	-.083
	H(1:6)									-.422	.330	.486
	H(1:7)									-.300	-.017	-.607
	H(1:8)									.345	.008	-.204

Classification

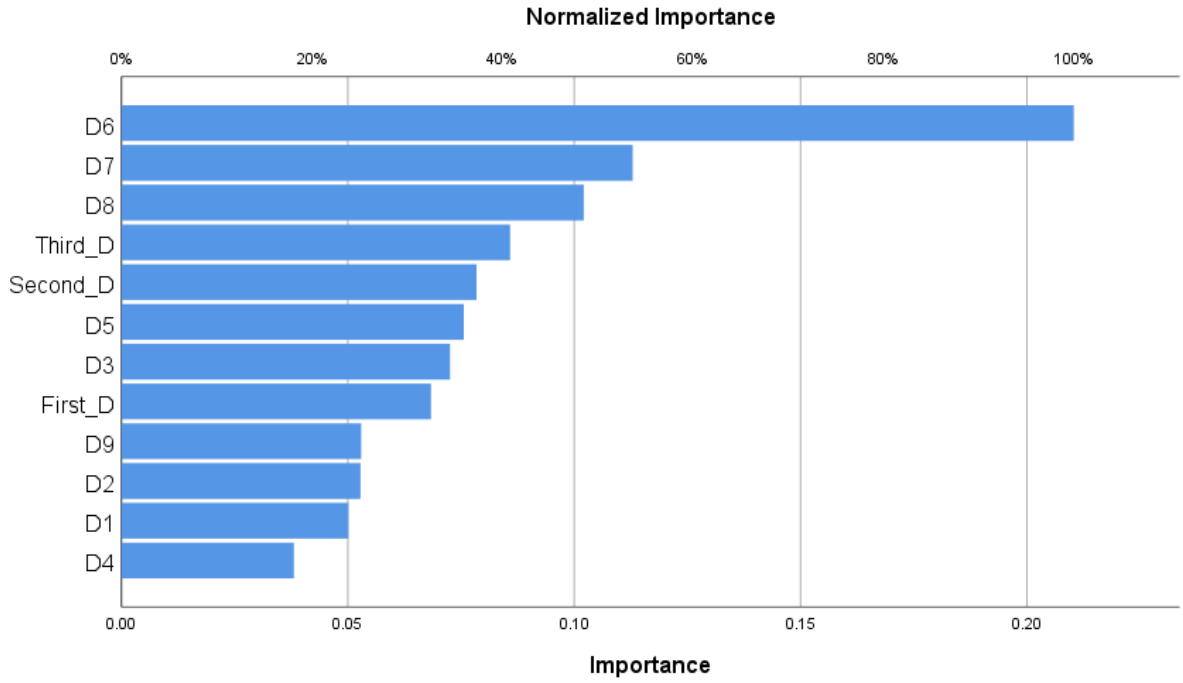
		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	2	1	0	66.7%
	noticeable changes	2	6	0	75.0%
	drastic changes	2	0	0	0.0%
	Overall Percent	46.2%	53.8%	0.0%	61.5%

Testing	minor changes	2	0	0	100.0%
	noticeable changes	0	0	0	0.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	100.0%	0.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.068	32.5%
Second discourse in text	.078	37.3%
Third discourse in text	.086	40.8%
CONTACT RESTRICTION	.050	23.8%
SANITATION AND HYGIENE	.053	25.1%
ISOLATION OF INFECTED	.073	34.5%
TOTAL ISOLATION	.038	18.1%
HEALTH CARE	.076	35.9%
VIRUS DISSEMINATION	.210	100.0%
LIFESTYLE CHANGES	.113	53.7%
RIGHTS AND FREEDOMS INFRINGEMENT	.102	48.5%
BUREAUCRATIC RESPONSE	.053	25.2%




```
*Multilayer Perceptron Network.
MLP everyday_life (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 16:05:00
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 everyday_life (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE 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	00:00:00.48

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

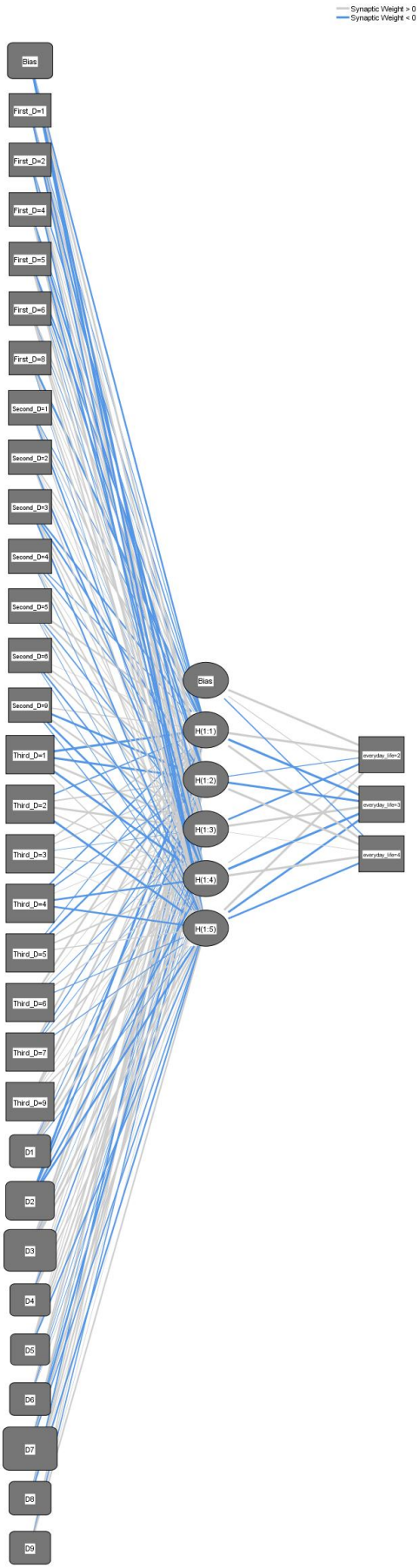
		N	Percent
Sample	Training	12	92.3%
	Testing	1	7.7%
Valid		13	100.0%
Excluded		91	
Total		104	

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]		30
	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	Changes in everyday life
	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	.681
	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	.000
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

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)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	-.501	.645	.102	-1.435	-1.068			
	[First_D=1]	-.133	.547	-.572	.773	-.504			
	[First_D=2]	-.265	.023	.207	.419	-.401			
	[First_D=4]	-.117	-.667	.344	-.597	.561			
	[First_D=5]	-.461	-.396	.249	-.109	.529			
	[First_D=6]	.287	-.109	.188	.318	.497			
	[First_D=8]	-.763	.081	.124	.499	-.057			
	[Second_D=1]	-.170	.348	-.004	-.431	.180			
	[Second_D=2]	.316	.053	.096	-.484	.235			
	[Second_D=3]	-.484	-.468	.484	.192	-.468			
	[Second_D=4]	-.182	-.245	.070	.388	-.147			
	[Second_D=5]	.572	.599	-.287	.323	-.087			
	[Second_D=6]	.016	.443	.398	-.416	-.103			

	[Second_D=9]	.216	-.862	.619	-.740	-.212			
	[Third_D=1]	-1.599	-.978	.838	-1.139	.227			
	[Third_D=2]	-.309	.369	.793	.363	-.963			
	[Third_D=3]	.364	.194	-.064	.256	.028			
	[Third_D=4]	-.368	-.237	.062	-.627	-.616			
	[Third_D=5]	-.154	-.548	.267	.462	.227			
	[Third_D=6]	.722	.066	-.152	.230	-.159			
	[Third_D=7]	.582	-.231	-.093	.466	-.182			
	[Third_D=9]	.694	.385	.080	.132	.343			
	D1	.196	-.171	.749	.800	-.112			
	D2	-1.257	-.514	.001	-.574	-.835			
	D3	.856	.861	-.019	.873	.644			
	D4	.148	.178	-.327	.171	.328			
	D5	.100	.170	.479	.234	-.392			
	D6	.232	.812	-.080	-.071	.094			
	D7	1.258	-.144	-.712	.678	-.285			
	D8	-.414	.316	.497	.018	-.449			
	D9	.279	.134	-.248	.006	.424			
Hidden Layer 1	(Bias)						.966	.162	-.250
	H(1:1)						1.263	-3.074	.845
	H(1:2)						-.179	-.951	1.283
	H(1:3)						-.625	1.138	.054
	H(1:4)						.215	-1.959	1.764
	H(1:5)						1.011	-.920	-.632

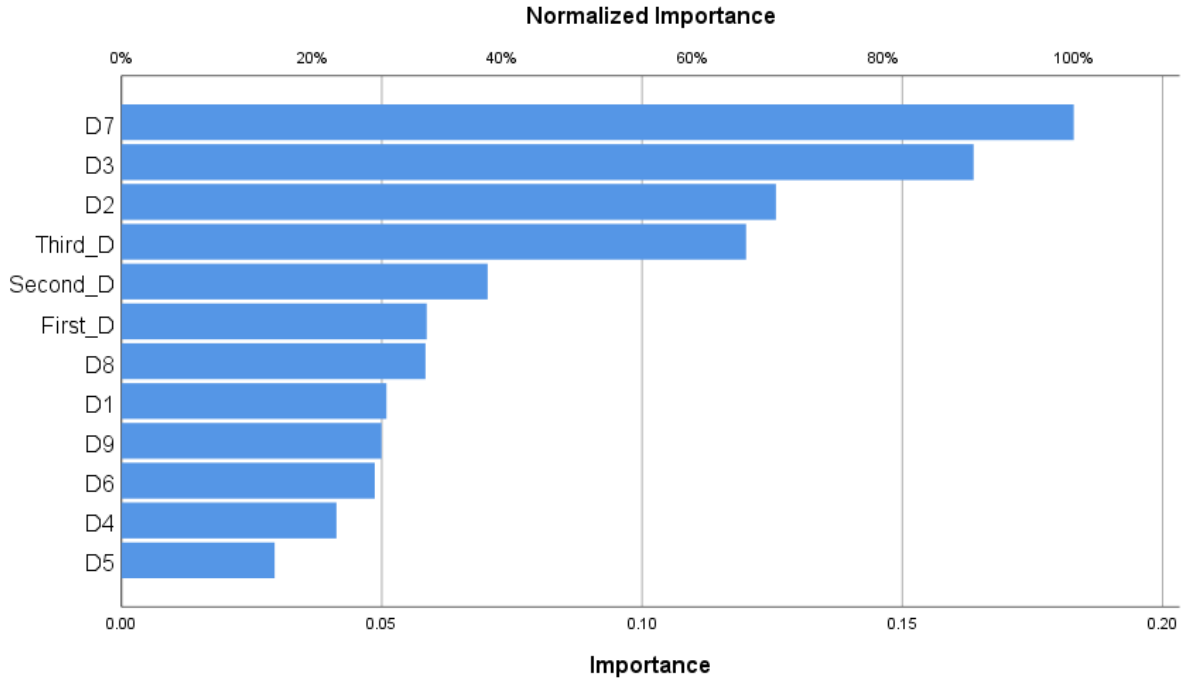
Classification

		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	4	0	0	100.0%
	noticeable changes	0	6	0	100.0%
	drastic changes	0	0	2	100.0%
	Overall Percent	33.3%	50.0%	16.7%	100.0%
Testing	minor changes	0	0	0	0.0%
	noticeable changes	0	1	0	100.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.059	32.1%
Second discourse in text	.070	38.5%
Third discourse in text	.120	65.6%
CONTACT RESTRICTION	.051	27.8%
SANITATION AND HYGIENE	.126	68.7%
ISOLATION OF INFECTED	.164	89.5%
TOTAL ISOLATION	.041	22.6%
HEALTH CARE	.029	16.1%
VIRUS DISSEMINATION	.049	26.6%
LIFESTYLE CHANGES	.183	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.058	31.9%
BUREAUCRATIC RESPONSE	.050	27.3%

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*Multilayer Perceptron Network.
MLP everyday_life (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 16:05:06
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 everyday_life (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE 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	00:00:00.52
	Elapsed Time	00:00:00.51

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

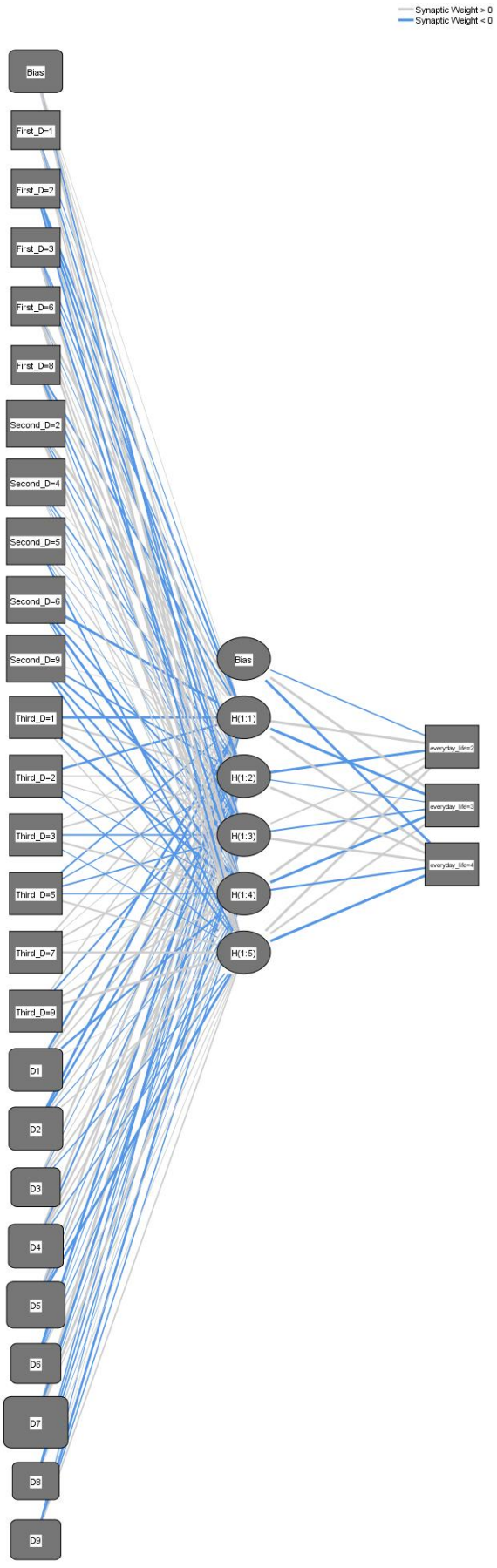
		N	Percent
Sample	Training	9	90.0%
	Testing	1	10.0%
Valid		10	100.0%
Excluded		94	
Total		104	

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]		5
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Changes in everyday life
	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	.005
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	Training error ratio criterion (.001) achieved
	Training Time	0:00:00.00
Testing	Cross Entropy Error	1.464E-5
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

Parameter Estimates

		Predicted							
		Hidden Layer 1					Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	.042	.075	.474	-.350	.613			
	[First_D=1]	-.187	.057	-.355	.375	.297			
	[First_D=2]	-.664	-.454	-.485	.425	-.419			
	[First_D=3]	-.252	-.275	.143	-.429	.900			
	[First_D=6]	.565	-.081	.188	.405	.450			
	[First_D=8]	-.414	.331	-.355	-.239	.355			
	[Second_D=2]	1.645	-.241	-.240	.860	.254			
	[Second_D=4]	.113	-.345	-.152	-.031	.234			
	[Second_D=5]	.091	-.002	.289	-.054	-.416			
	[Second_D=6]	-1.700	.272	-.423	-1.180	-.239			
	[Second_D=9]	.025	-.410	-.556	-.455	-.411			
	[Third_D=1]	-1.606	.596	.481	-.945	.264			
	[Third_D=2]	-.576	.226	.263	-.212	-.286			
	[Third_D=3]	.102	.407	-.362	.527	-.181			
	[Third_D=5]	-.377	-.277	-.361	-.271	.419			
	[Third_D=7]	.362	.101	.408	.075	.570			

	[Third_D=9]	.305	-.405	.139	.456	.948			
	D1	-.756	.784	.339	-.674	.031			
	D2	-.967	-.619	.277	-.199	.323			
	D3	.513	-.119	.106	.417	-.274			
	D4	.849	-.405	.675	.358	-.287			
	D5	.681	-.168	.499	-.254	-1.029			
	D6	-.880	-.143	-.074	-.237	.220			
	D7	2.015	-.864	-.081	.814	.211			
	D8	-.281	-.332	-.317	-.007	.077			
	D9	-.198	.049	-.718	-.280	.310			
Hidden Layer 1	(Bias)						-.294	1.585	-1.431
	H(1:1)						1.721	-3.073	1.778
	H(1:2)						-1.588	-.238	1.379
	H(1:3)						.404	-.389	1.146
	H(1:4)						1.746	-2.264	-.479
	H(1:5)						1.397	.550	-2.075

Classification

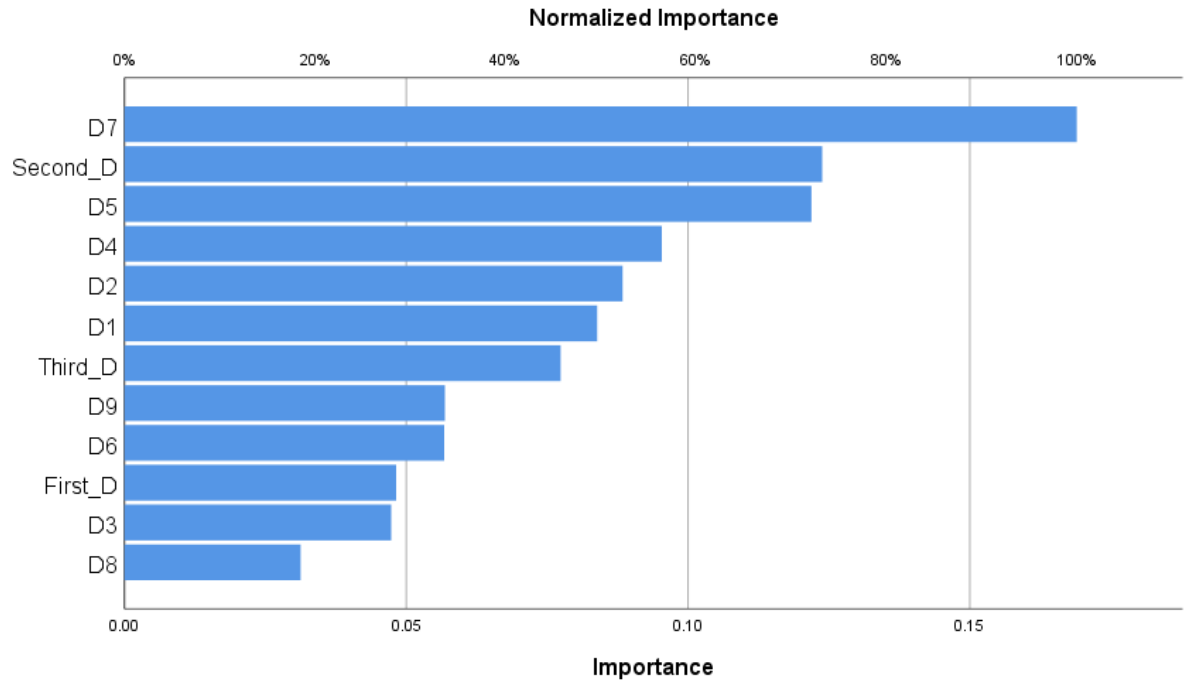
		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	3	0	0	100.0%
	noticeable changes	0	5	0	100.0%
	drastic changes	0	0	1	100.0%
	Overall Percent	33.3%	55.6%	11.1%	100.0%
Testing	minor changes	0	0	0	0.0%
	noticeable changes	0	1	0	100.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.048	28.5%
Second discourse in text	.124	73.3%
Third discourse in text	.077	45.8%
CONTACT RESTRICTION	.084	49.6%

SANITATION AND HYGIENE	.088	52.3%
ISOLATION OF INFECTED	.047	28.0%
TOTAL ISOLATION	.095	56.4%
HEALTH CARE	.122	72.1%
VIRUS DISSEMINATION	.057	33.6%
LIFESTYLE CHANGES	.169	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.031	18.5%
BUREAUCRATIC RESPONSE	.057	33.6%




```
*Multilayer Perceptron Network.
MLP everyday_life (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 16:05:16
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 everyday_life (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE 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	00:00:00.48
	Elapsed Time	00:00:00.50

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

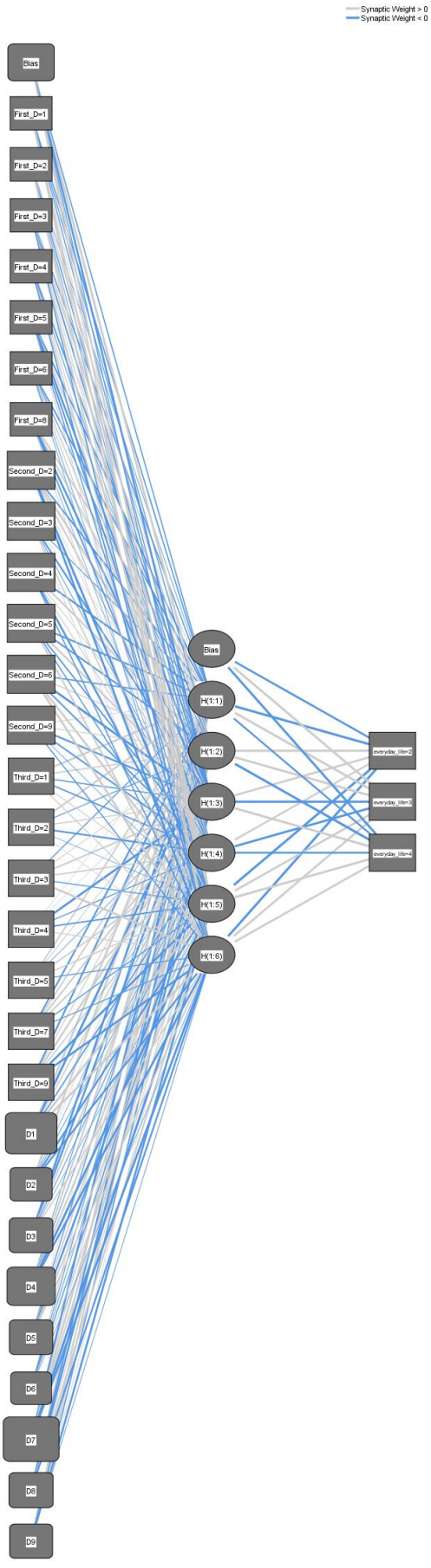
		N	Percent
Sample	Training	11	84.6%
	Testing	2	15.4%
Valid		13	100.0%
Excluded		91	
Total		104	

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]		29
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		6
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Changes in everyday life
	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	.010
	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	.000
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

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)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	-.269	.905	-.604	-.215	.520	.306			
	[First_D=1]	-.299	-.199	-.222	.027	.553	.397			
	[First_D=2]	-.056	.257	-.274	-.102	.675	.076			
	[First_D=3]	-.278	.427	-.340	.114	.513	-.294			
	[First_D=4]	.035	-.334	-.128	.162	.300	-.310			
	[First_D=5]	-.408	.352	-.572	-.427	-.254	.159			
	[First_D=6]	-.387	-.195	.279	.222	-.072	-.070			
	[First_D=8]	.451	.394	-.611	-.359	-.029	.079			
	[Second_D=2]	-.403	.846	.420	.019	-1.013	-.699			
	[Second_D=3]	-.176	.012	-.483	-.118	.332	.070			
	[Second_D=4]	-.506	.517	.123	.185	-.599	-.280			
	[Second_D=5]	-.469	-.454	.537	-.345	-.261	.448			
	[Second_D=6]	-.322	.253	-1.035	-.405	.712	.934			

	[Second_D=9]	.078	.171	-.492	-.411	-.038	-.268			
	[Third_D=1]	.588	.299	-.272	-.340	.156	.232			
	[Third_D=2]	.516	-.180	.252	-.474	-.018	.029			
	[Third_D=3]	-.240	.117	.449	.328	-.236	.907			
	[Third_D=4]	.009	.000	-.965	-.225	-.359	.194			
	[Third_D=5]	.363	.141	-.044	.362	.311	-.223			
	[Third_D=7]	-.456	.359	.467	.415	-.255	-.215			
	[Third_D=9]	-.496	.174	.583	-.007	-.852	-.602			
	D1	.586	-1.045	.297	-.302	1.107	1.262			
	D2	.753	.014	-.024	-.115	-.542	-.522			
	D3	-.791	-.579	.419	-.153	-.023	.316			
	D4	-.141	.433	-.126	.458	-1.103	-.746			
	D5	.016	-.245	.329	-.547	.398	.375			
	D6	.171	-.180	-.115	-.254	.202	-.030			
	D7	-.591	.179	.815	.358	-1.354	-1.020			
	D8	.353	-.505	-.554	.138	.486	-.492			
	D9	.332	.475	-.301	.033	-.603	-.089			
Hidden Layer 1	(Bias)							-.739	1.471	-1.427
	H(1:1)							-2.274	1.801	-.529
	H(1:2)							1.420	1.154	-2.302
	H(1:3)							.853	-1.888	1.775
	H(1:4)							.552	-1.094	-.541
	H(1:5)							-2.687	.957	1.822
	H(1:6)							-2.077	.854	.853

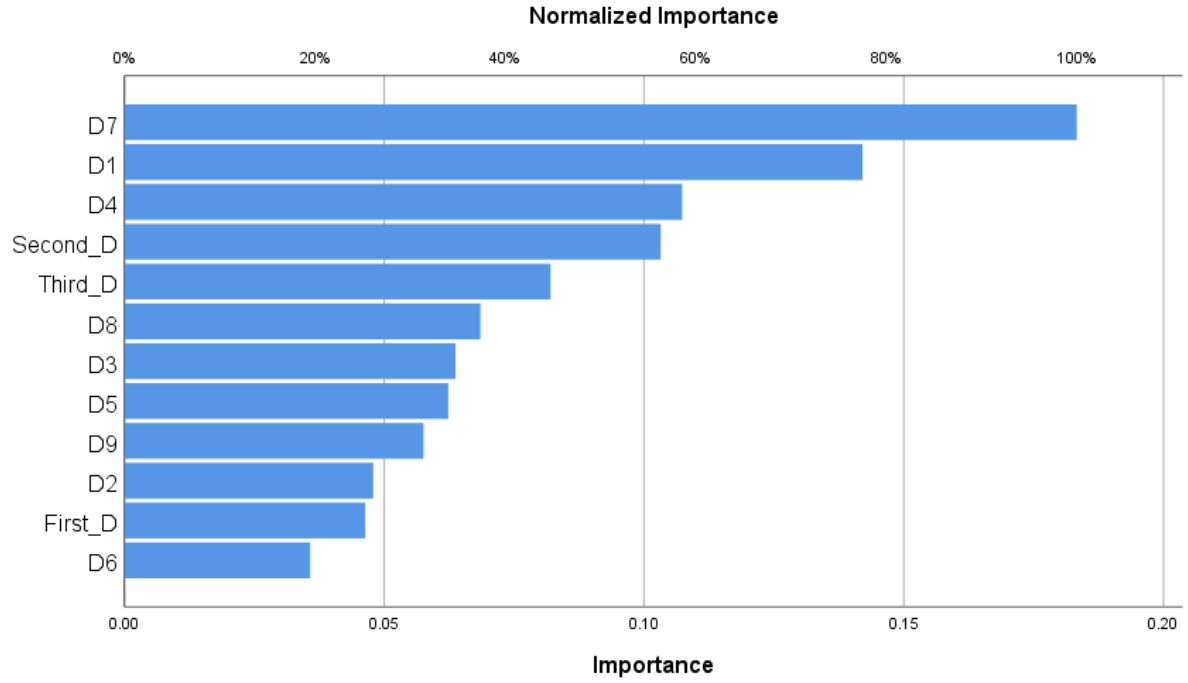
Classification

		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	4	0	0	100.0%
	noticeable changes	0	6	0	100.0%
	drastic changes	0	0	1	100.0%
	Overall Percent	36.4%	54.5%	9.1%	100.0%
Testing	minor changes	0	0	0	0.0%
	noticeable changes	0	2	0	100.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.046	25.3%
Second discourse in text	.103	56.3%
Third discourse in text	.082	44.7%
CONTACT RESTRICTION	.142	77.5%
SANITATION AND HYGIENE	.048	26.1%
ISOLATION OF INFECTED	.064	34.8%
TOTAL ISOLATION	.107	58.6%
HEALTH CARE	.062	34.0%
VIRUS DISSEMINATION	.036	19.5%
LIFESTYLE CHANGES	.183	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.068	37.4%
BUREAUCRATIC RESPONSE	.058	31.4%




```
*Multilayer Perceptron Network.
MLP everyday_life (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 16:05:23
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 everyday_life (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	00:00:00.51

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

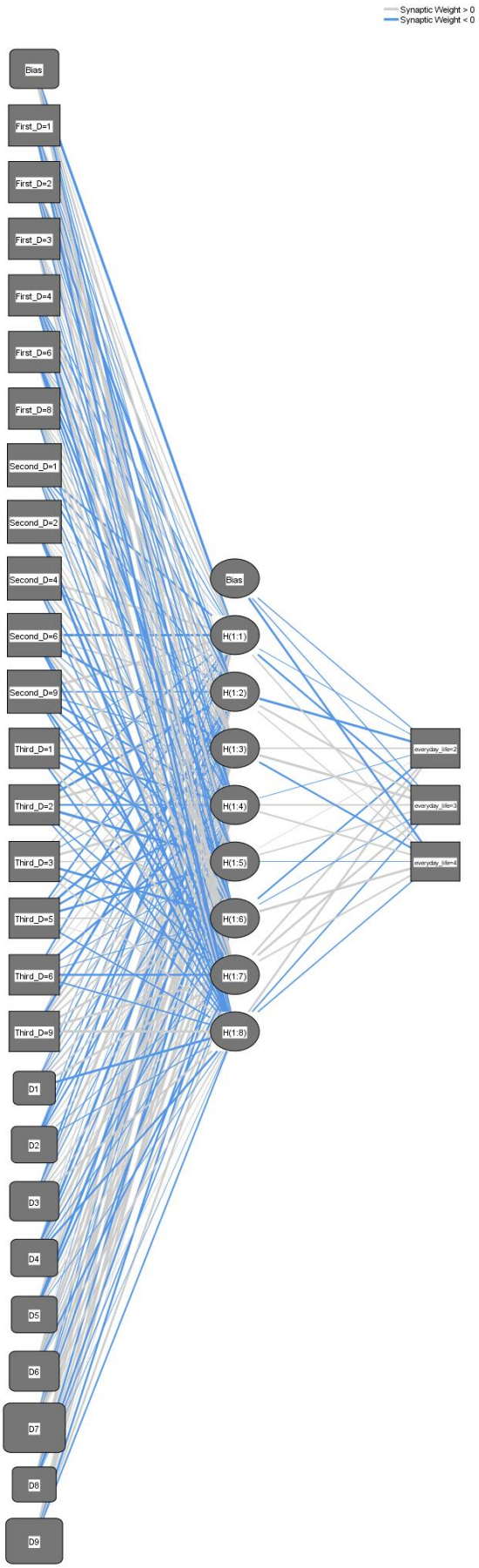
		N	Percent
Sample	Training	10	83.3%
	Testing	2	16.7%
Valid		12	100.0%
Excluded		92	
Total		104	

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]		26
	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	Changes in everyday life
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit


Synaptic Weight > 0
Synaptic Weight < 0
Bias
First_D=1
First_D=2
First_D=3
First_D=4
First_D=6
First_D=8
Second_D=1
Second_D=2
Second_D=4
Second_D=6
Second_D=9
Third_D=1
Third_D=2
Third_D=3
Third_D=5
Third_D=6
Third_D=9
D1
D2
D3
D4
D5
D6
D7
D8
D9
Bias
H(1:1)
H(1:2)
H(1:3)
H(1:4)
H(1:5)
H(1:6)
H(1:7)
H(1:8)
everyday_life=2
everyday_life=3
everyday_life=4
Hidden layer activation function: Hyperbolic tangent
Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	8.189
	Percent Incorrect Predictions	40.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	1.233
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

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)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	-.746	.048	.391	-.060	-.173	-.335	.761	.039			
	[First_D=1]	.207	-.151	-.122	-.267	.817	-.208	.208	-.531			
	[First_D=2]	.332	-.617	.709	-.212	-.105	.149	.387	-.226			
	[First_D=3]	-.004	.203	.166	.100	-.040	-.197	.059	.252			
	[First_D=4]	-.169	-.269	.395	-.281	.046	-.401	.719	-.455			
	[First_D=6]	-.012	.435	-.010	-.231	-.472	-.266	-.181	.191			
	[First_D=8]	.020	.179	.261	-.029	.258	.455	.134	-.308			
	[Second_D=1]	-.371	-.231	-.078	-.270	.020	-.198	.538	-.198			
	[Second_D=2]	.072	.008	.087	.039	.132	.333	-.395	-.685			
	[Second_D=4]	.480	-.185	.068	.324	.036	-.254	.407	-.228			
	[Second_D=6]	-.566	.321	-.483	-.097	.471	.649	-.322	-.501			
	[Second_D=9]	.634	-.209	-.183	-.339	-.396	.211	-.429	-.224			
	[Third_D=1]	-.064	.264	.291	-.443	-.470	.081	.455	-.294			
	[Third_D=2]	-.300	-.583	.618	-.293	-.791	.360	-.247	-.218			

	[Third_D=3]	.134	.270	-.105	.532	.183	-.583	-.257	.220			
	[Third_D=5]	-.316	.111	-.594	-.407	-.458	.216	.016	-.248			
	[Third_D=6]	-.324	.191	.012	-.428	-.097	-.087	-.439	-.245			
	[Third_D=9]	.258	-.607	.400	.428	.229	.450	.520	.643			
	D1	-.061	-.208	.292	-.110	.339	.218	.448	-.534			
	D2	-.110	-.394	-.125	-.317	.123	.145	-.071	-.148			
	D3	-.291	-.204	.654	-.180	.045	.288	.110	.356			
	D4	.062	-.027	-.633	-.230	.625	-.195	-.150	-.406			
	D5	.060	.220	.505	-.779	-.346	.074	.237	-.080			
	D6	.018	-.054	.627	.628	-.023	.638	-.369	.213			
	D7	.250	-.209	-.186	.748	-.320	.484	.360	.028			
	D8	.499	.246	.109	-.399	.401	-.388	-.203	-.037			
	D9	.096	.187	.502	.427	.021	-.385	.381	-.261			
Hidden Layer	(Bias)									-.168	-.154	-.420
1	H(1:1)									-.066	-.331	.219
	H(1:2)									-.495	.346	.183
	H(1:3)									.218	.559	-.325
	H(1:4)									-.051	.221	.269
	H(1:5)									.014	.214	-.029
	H(1:6)									-.275	-.110	.489
	H(1:7)									.322	.421	.263
	H(1:8)									.395	-.226	-.209

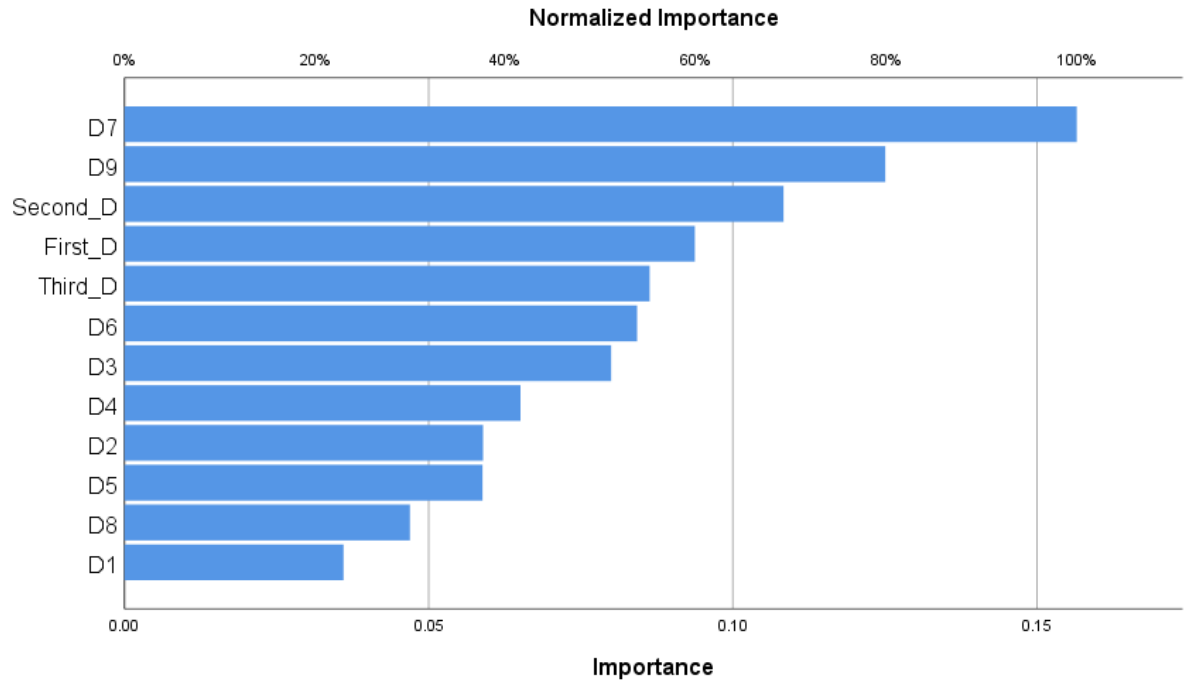
Classification

		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	0	3	0	0.0%
	noticeable changes	1	5	0	83.3%
	drastic changes	0	0	1	100.0%
	Overall Percent	10.0%	80.0%	10.0%	60.0%
Testing	minor changes	1	0	0	100.0%
	noticeable changes	0	1	0	100.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	50.0%	50.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.094	59.9%
Second discourse in text	.108	69.2%
Third discourse in text	.086	55.1%
CONTACT RESTRICTION	.036	23.0%
SANITATION AND HYGIENE	.059	37.7%
ISOLATION OF INFECTED	.080	51.1%
TOTAL ISOLATION	.065	41.6%
HEALTH CARE	.059	37.6%
VIRUS DISSEMINATION	.084	53.8%
LIFESTYLE CHANGES	.157	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.047	30.0%
BUREAUCRATIC RESPONSE	.125	79.9%




```
*Multilayer Perceptron Network.
MLP everyday_life (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 16:05:32
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 everyday_life (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE 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	00:00:00.49
	Elapsed Time	00:00:00.47

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

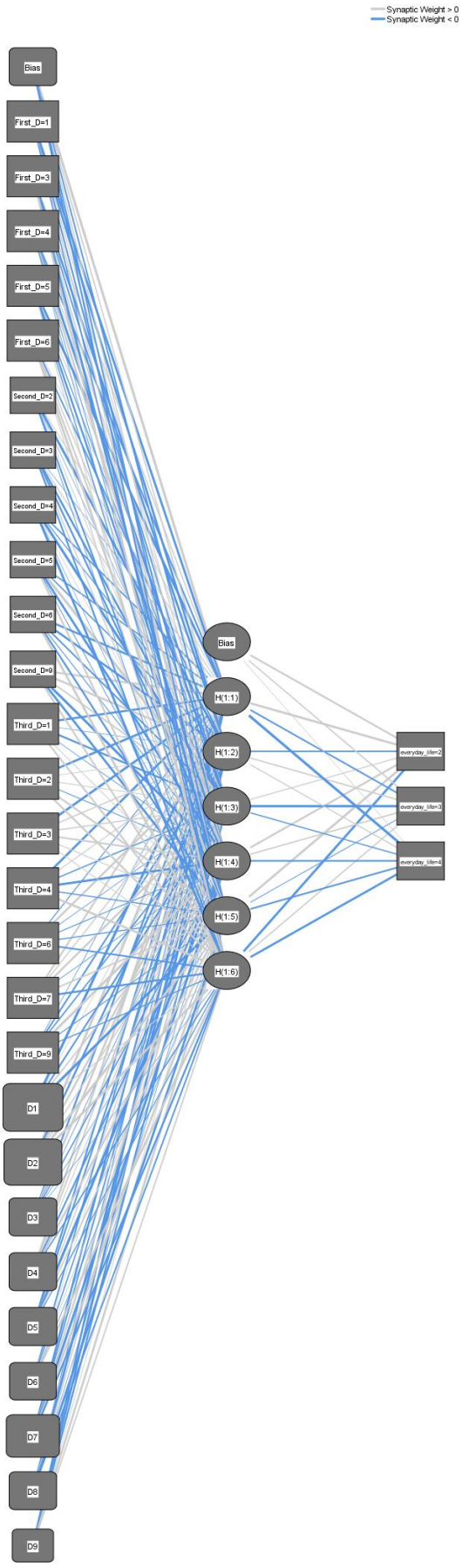
		N	Percent
Sample	Training	11	91.7%
	Testing	1	8.3%
Valid		12	100.0%
Excluded		92	
Total		104	

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]		6
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Changes in everyday life
	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	6.436
	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	.393
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

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)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	.751	.185	-.238	.170	-.242	-.300			
	[First_D=1]	-.551	-.546	.106	-.261	.163	-.177			
	[First_D=3]	.161	-.473	-.230	.210	-.663	.471			
	[First_D=4]	-.276	.098	-.619	.418	-.074	-.039			
	[First_D=5]	-.620	.072	-.139	-.374	-.152	.112			
	[First_D=6]	.074	-.240	.138	.315	.629	.106			
	[Second_D=2]	.107	-.644	-.007	.068	-.288	-.075			
	[Second_D=3]	-.022	.122	-.397	-.320	.152	-.292			
	[Second_D=4]	-.237	-.119	-.773	.030	-.010	-.599			
	[Second_D=5]	-.219	-.195	.872	-.555	-.075	.332			
	[Second_D=6]	-.405	-.474	-.253	-.092	-.338	.601			
	[Second_D=9]	.379	.433	.241	-.662	-.525	.319			
	[Third_D=1]	-.425	-.016	-.357	-.055	.076	.319			

	[Third_D=2]	-.539	.059	.089	-.084	.345	.370			
	[Third_D=3]	-.604	.183	.194	.294	.105	.087			
	[Third_D=4]	-.546	.111	-.195	-.556	-.159	.495			
	[Third_D=6]	-.130	.461	-.056	-.104	-.147	-.275			
	[Third_D=7]	.331	.160	.399	-.060	.259	-.376			
	[Third_D=9]	-.044	-.264	-.225	.689	-.098	-.148			
	D1	-.817	.038	-.289	.236	-.842	.110			
	D2	.658	-.384	.417	.174	.713	.659			
	D3	-.344	.468	-.050	-.199	-.025	-.010			
	D4	.408	.242	.088	-.281	.389	-.202			
	D5	-.310	-.275	.138	-.838	.227	-.134			
	D6	-.248	.042	-.195	.066	-.048	.433			
	D7	-.394	-.234	.307	-.629	.464	-.362			
	D8	-.095	-.646	.215	-.048	-.552	-.246			
	D9	-.386	-.475	-.299	.057	.462	.230			
Hidden Layer 1	(Bias)							.368	.218	.036
	H(1:1)							.554	-.262	-.844
	H(1:2)							-.230	.220	.149
	H(1:3)							.131	-.668	-.164
	H(1:4)							.384	.224	-.264
	H(1:5)							.563	-.079	-.285
	H(1:6)							-.593	.214	-.478

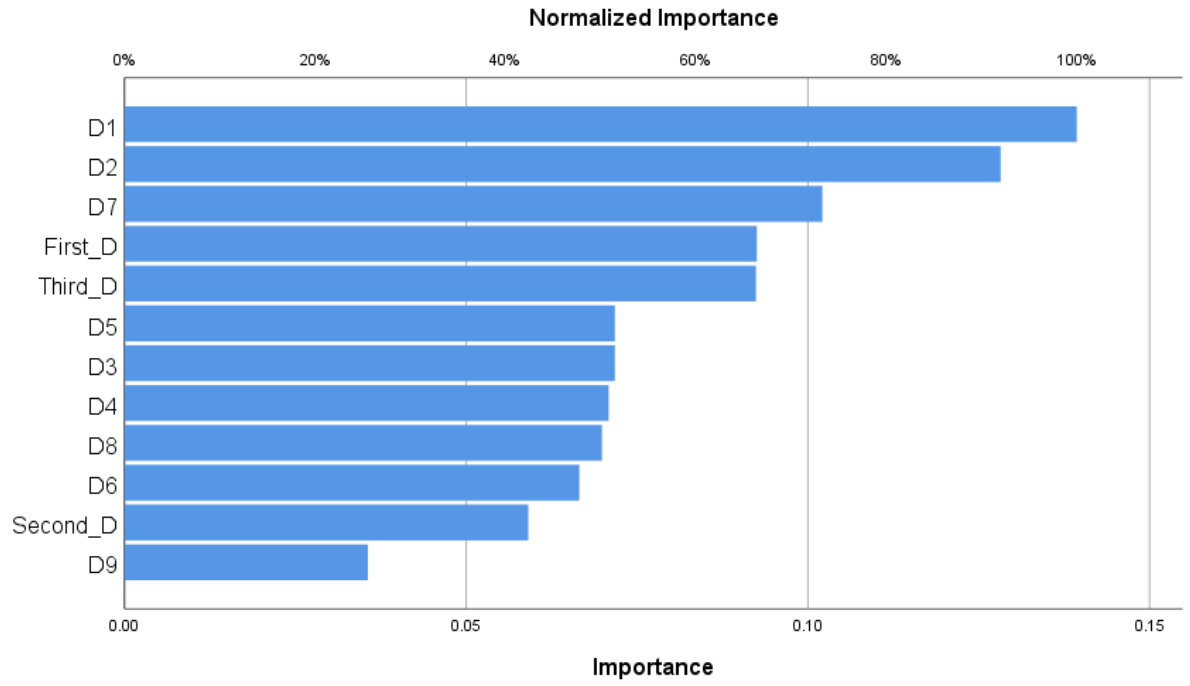
Classification

		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	4	0	0	100.0%
	noticeable changes	0	4	1	80.0%
	drastic changes	0	0	2	100.0%
	Overall Percent	36.4%	36.4%	27.3%	90.9%
Testing	minor changes	0	0	0	0.0%
	noticeable changes	0	1	0	100.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.093	66.4%
Second discourse in text	.059	42.4%
Third discourse in text	.092	66.3%
CONTACT RESTRICTION	.139	100.0%
SANITATION AND HYGIENE	.128	92.0%
ISOLATION OF INFECTED	.072	51.5%
TOTAL ISOLATION	.071	50.8%
HEALTH CARE	.072	51.5%
VIRUS DISSEMINATION	.067	47.8%
LIFESTYLE CHANGES	.102	73.3%
RIGHTS AND FREEDOMS INFRINGEMENT	.070	50.1%
BUREAUCRATIC RESPONSE	.036	25.6%




```
*Multilayer Perceptron Network.
MLP everyday_life (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 16:05:40
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 everyday_life (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE 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	00:00:00.52
	Elapsed Time	00:00:00.50

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

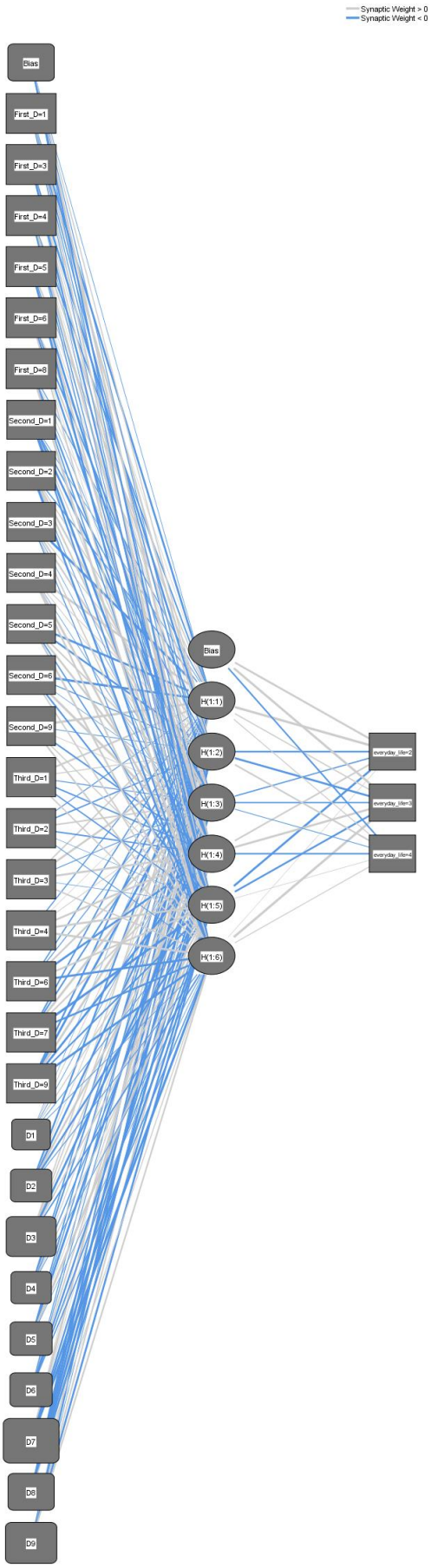
		N	Percent
Sample	Training	12	85.7%
	Testing	2	14.3%
Valid		14	100.0%
Excluded		90	
Total		104	

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]		29
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		6
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Changes in everyday life
	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	9.039
	Percent Incorrect Predictions	33.3%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.04
Testing	Cross Entropy Error	.679
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

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)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	-.027	.178	-.115	.577	-.400	-.146			
	[First_D=1]	-.477	.542	-.216	-.132	.363	-.088			
	[First_D=3]	.004	-.510	.076	.324	-.405	-.049			
	[First_D=4]	-.286	.348	.016	.798	-.163	-.162			
	[First_D=5]	.195	.022	.059	-.542	.376	-.580			
	[First_D=6]	.158	-.306	.324	-.409	.009	.304			
	[First_D=8]	-.136	.033	-.037	-.343	-.206	.714			
	[Second_D=1]	-.059	-.222	-.578	.162	-.723	-.364			
	[Second_D=2]	-.168	.181	.454	.364	-.072	-.492			
	[Second_D=3]	-.853	.130	.371	-.020	.234	-.160			
	[Second_D=4]	.667	.114	.073	-.027	.653	.399			
	[Second_D=5]	-.611	-.416	.341	.477	-.229	.440			
	[Second_D=6]	-.777	-.160	-.026	.890	-.356	.302			

	[Second_D=9]	.868	-.079	.070	-.314	.180	.366			
	[Third_D=1]	.432	.143	-.130	-.285	-.242	.284			
	[Third_D=2]	-.138	-.243	.333	-.280	-.008	-.107			
	[Third_D=3]	.303	.539	-.106	.575	-.012	.302			
	[Third_D=4]	-.164	.009	.079	.531	.554	.654			
	[Third_D=6]	-.221	-.125	.443	-.564	.432	-.655			
	[Third_D=7]	-.303	-.332	.714	.358	-.892	-.456			
	[Third_D=9]	-.379	-.702	.664	-.583	-.352	-.691			
	D1	-5.509E-5	.091	-.058	.163	-.101	-.062			
	D2	-.397	.073	-.453	.472	-.456	-.106			
	D3	.218	.209	.230	-.638	.274	-.303			
	D4	-.266	-.340	.099	-.189	.177	-.088			
	D5	-.250	-.171	-.640	.068	.751	-.020			
	D6	-.157	-.130	.294	-.388	-.269	-.192			
	D7	.013	.737	.058	-.379	-.605	-.872			
	D8	-.388	-.784	-.890	-.826	-.505	.151			
	D9	.193	-.410	-.049	.309	-.470	.348			
Hidden Layer 1	(Bias)							.541	.819	-.342
	H(1:1)							.900	.195	.147
	H(1:2)							-.370	-.510	.360
	H(1:3)							-.210	-.242	-.083
	H(1:4)							.356	.604	-.335
	H(1:5)							-.582	-.415	.025
	H(1:6)							.009	1.297	.146

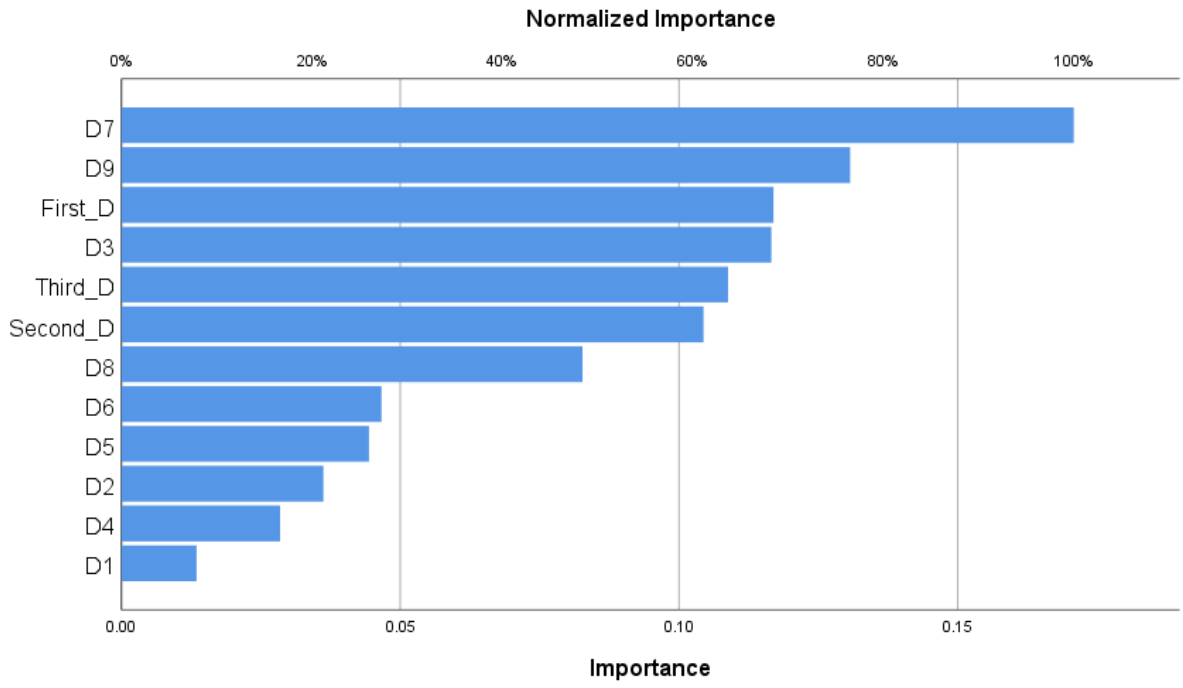
Classification

		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	2	2	0	50.0%
	noticeable changes	1	5	0	83.3%
	drastic changes	0	1	1	50.0%
	Overall Percent	25.0%	66.7%	8.3%	66.7%
Testing	minor changes	1	0	0	100.0%
	noticeable changes	0	1	0	100.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	50.0%	50.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.117	68.5%
Second discourse in text	.104	61.1%
Third discourse in text	.109	63.7%
CONTACT RESTRICTION	.013	7.9%
SANITATION AND HYGIENE	.036	21.2%
ISOLATION OF INFECTED	.117	68.2%
TOTAL ISOLATION	.028	16.7%
HEALTH CARE	.044	26.0%
VIRUS DISSEMINATION	.047	27.3%
LIFESTYLE CHANGES	.171	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.083	48.4%
BUREAUCRATIC RESPONSE	.131	76.5%



*Multilayer Perceptron Network.

```
MLP everyday_life (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 16:05:54
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 everyday_life (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE 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	00:00:00.45
	Elapsed Time	00:00:00.47

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

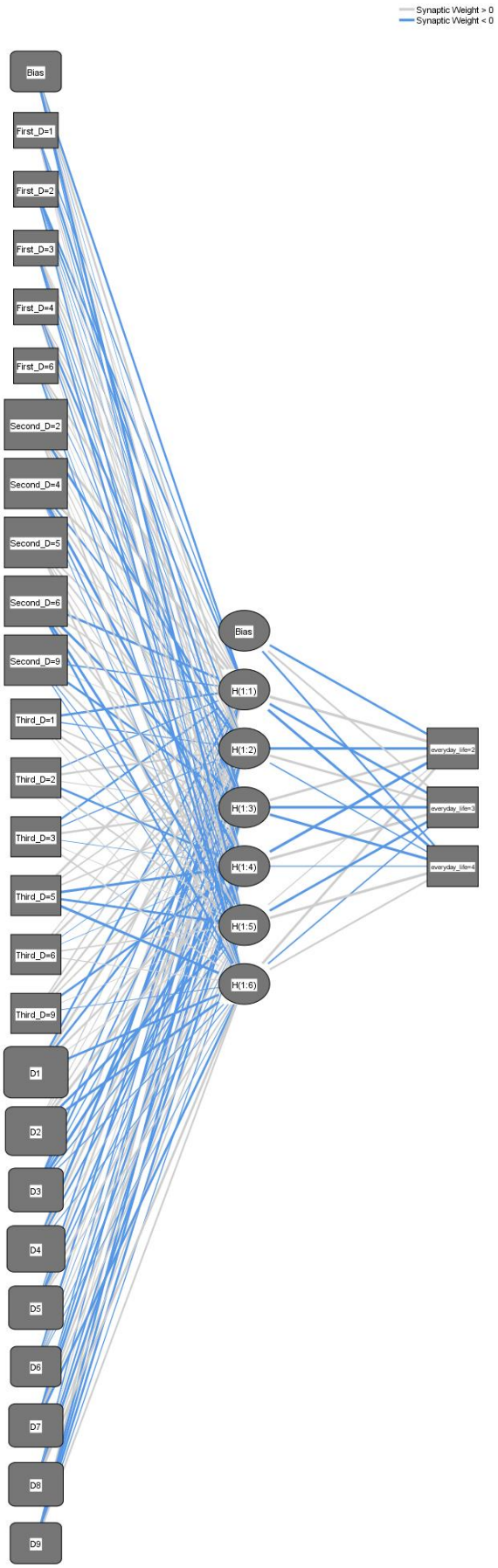
		N	Percent
Sample	Training	10	90.9%
	Testing	1	9.1%
Valid		11	100.0%
Excluded		93	
Total		104	

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]		6
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Changes in everyday life
	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	.672
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	.029
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

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)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	-.505	.441	-.003	.209	-.635	-.116			
	[First_D=1]	-.169	.057	-.466	-.102	.124	.043			
	[First_D=2]	-.421	-.344	-.069	-.011	.170	-.316			
	[First_D=3]	.100	.352	.116	-.146	-.081	-.440			
	[First_D=4]	.171	.264	-.486	.276	-.178	.027			
	[First_D=6]	.378	.132	-.090	.009	-.069	-.199			
	[Second_D=2]	.710	-.656	.119	.146	.017	.366			
	[Second_D=4]	.594	-.398	.355	-.934	-.262	-.079			
	[Second_D=5]	.063	.334	.358	.128	.408	.390			
	[Second_D=6]	-.652	.251	-.701	.385	-.674	-.506			
	[Second_D=9]	-.261	.046	-.549	.484	-.115	-.121			
	[Third_D=1]	-.558	-.148	.239	.412	.185	.008			
	[Third_D=2]	-.244	.446	.100	-.513	.326	.058			
	[Third_D=3]	-.468	-.160	.517	-.038	.045	.272			

	[Third_D=5]	.604	.246	.315	-.718	-.556	-.734			
	[Third_D=6]	.135	.509	-.051	-.043	.230	.105			
	[Third_D=9]	.309	.471	.297	-.534	.050	-.073			
	D1	-.485	.719	-.517	.480	.106	-.585			
	D2	.148	.094	.314	1.142	-.633	-.725			
	D3	-.283	-.337	-.161	-1.201	-.218	-.147			
	D4	.245	-.751	.572	-.397	.056	-.108			
	D5	-.338	.469	-.350	-.232	.430	.267			
	D6	-.502	.084	-.053	.187	-.057	-.078			
	D7	-.192	-.344	-.539	.411	.319	-.552			
	D8	-.238	.096	-.334	-.550	.251	.585			
	D9	.380	-.565	-.540	-.521	-.135	.366			
Hidden Layer	(Bias)							-.534	.389	-.455
1	H(1:1)							1.804	-.661	-.914
	H(1:2)							-.731	.627	-.201
	H(1:3)							.677	-.967	-.954
	H(1:4)							-1.383	1.500	-.126
	H(1:5)							.128	-.648	1.381
	H(1:6)							.656	-.254	.390

Classification

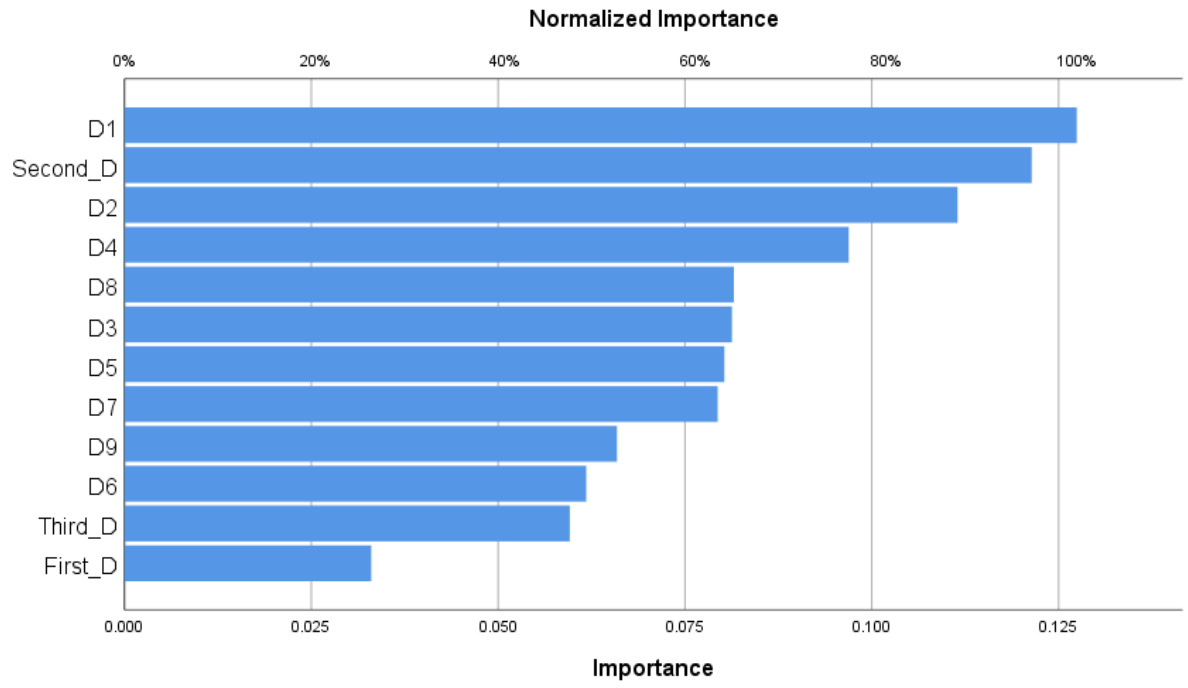
		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	2	0	0	100.0%
	noticeable changes	0	6	0	100.0%
	drastic changes	0	0	2	100.0%
	Overall Percent	20.0%	60.0%	20.0%	100.0%
Testing	minor changes	1	0	0	100.0%
	noticeable changes	0	0	0	0.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	100.0%	0.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.033	25.9%

Second discourse in text	.121	95.3%
Third discourse in text	.060	46.8%
CONTACT RESTRICTION	.127	100.0%
SANITATION AND HYGIENE	.111	87.5%
ISOLATION OF INFECTED	.081	63.8%
TOTAL ISOLATION	.097	76.1%
HEALTH CARE	.080	63.0%
VIRUS DISSEMINATION	.062	48.5%
LIFESTYLE CHANGES	.079	62.3%
RIGHTS AND FREEDOMS INFRINGEMENT	.082	64.0%
BUREAUCRATIC RESPONSE	.066	51.7%




```
*Multilayer Perceptron Network.
MLP everyday_life (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 16:06:18
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 everyday_life (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE 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	00:00:00.46

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.

The following independent variables are constant in the training sample and are excluded from the analysis: D8.

Case Processing Summary

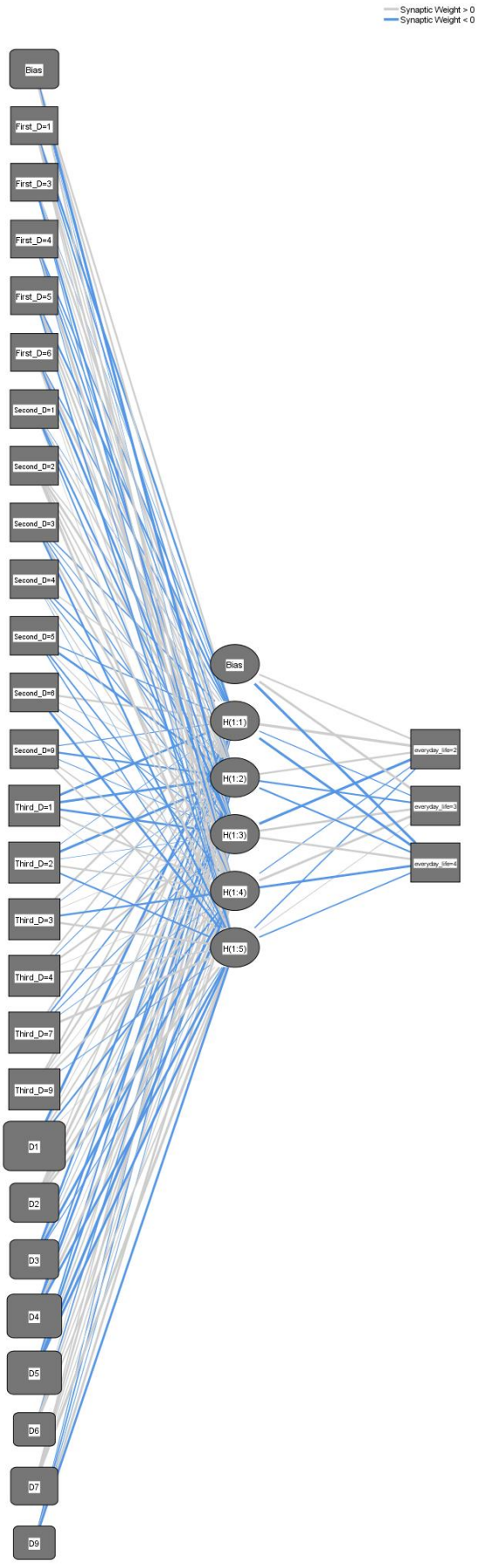
		N	Percent
Sample	Training	11	91.7%
	Testing	1	8.3%
Valid		12	100.0%
Excluded		92	
Total		104	

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 DISSEMINATION
		7	LIFESTYLE CHANGES
		8	BUREAUCRATIC RESPONSE

	Number of Units[a]	26
	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	Changes in everyday life
	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	10.970
	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	.132
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

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)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	.533	.523	-1.451	-.001	.448			
	[First_D=1]	-.627	-.366	.270	.672	.268			
	[First_D=3]	-.016	.633	.168	-.540	-.202			
	[First_D=4]	-.365	-.211	-.386	.889	-.144			
	[First_D=5]	-.529	.386	.624	.177	-.417			
	[First_D=6]	-.324	.860	-.729	.308	.077			
	[Second_D=1]	-.017	.383	-.538	-.374	.020			
	[Second_D=2]	.283	.749	.367	.505	.939			
	[Second_D=3]	-.319	-.147	-.274	.646	-.562			
	[Second_D=4]	.273	-.358	-.273	.239	-.011			
	[Second_D=5]	-.285	-.660	.199	-.382	-.300			
	[Second_D=6]	.579	.148	-.182	.264	-.708			

	[Second_D=9]	-.197	-.540	-.120	.346	.449			
	[Third_D=1]	-.780	-.819	-.656	.585	.080			
	[Third_D=2]	-.054	-.875	-.001	.502	-.437			
	[Third_D=3]	.641	-.079	.051	-.545	.660			
	[Third_D=4]	.423	-.147	.565	.024	.351			
	[Third_D=7]	.498	-.374	-.230	-.039	.792			
	[Third_D=9]	.499	.633	.036	.569	-.119			
	D1	-1.174	.105	.418	-.484	.066			
	D2	.309	.973	.407	1.072	.683			
	D3	-.637	-.063	.291	-.846	-.186			
	D4	-.437	-.741	.084	.864	-.746			
	D5	-.397	-.589	.399	-1.392	-.788			
	D6	.151	-.313	.437	.275	.383			
	D7	.346	.648	.281	.167	1.735			
	D9	-.163	-.362	-.094	.675	-.710			
Hidden Layer 1	(Bias)						.463	.826	-1.314
	H(1:1)						1.824	-.226	-.950
	H(1:2)						.559	-.452	-.484
	H(1:3)						-1.205	.661	.634
	H(1:4)						-.208	.786	-.732
	H(1:5)						-.327	.134	-.358

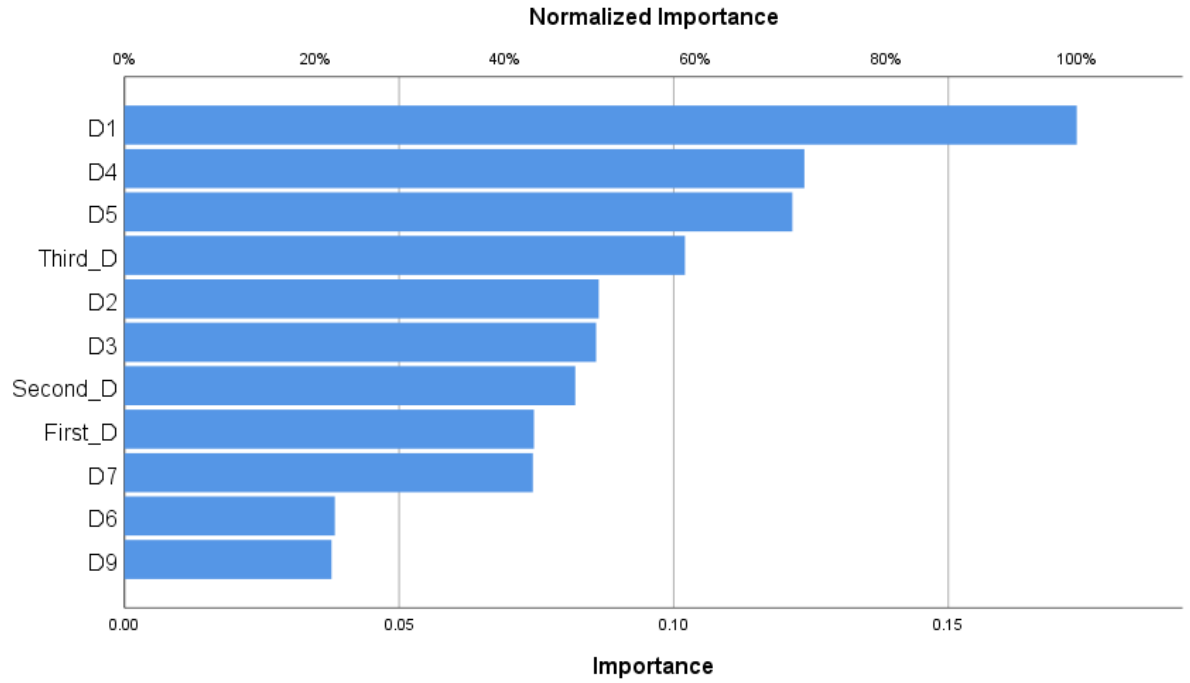
Classification

		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	4	0	0	100.0%
	noticeable changes	4	2	0	33.3%
	drastic changes	0	0	1	100.0%
	Overall Percent	72.7%	18.2%	9.1%	63.6%
Testing	minor changes	1	0	0	100.0%
	noticeable changes	0	0	0	0.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	100.0%	0.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.075	43.0%
Second discourse in text	.082	47.3%
Third discourse in text	.102	58.9%
CONTACT RESTRICTION	.173	100.0%
SANITATION AND HYGIENE	.086	49.8%
ISOLATION OF INFECTED	.086	49.5%
TOTAL ISOLATION	.124	71.4%
HEALTH CARE	.122	70.1%
VIRUS DISSEMINATION	.038	22.1%
LIFESTYLE CHANGES	.074	42.9%
BUREAUCRATIC RESPONSE	.038	21.7%




```
*Multilayer Perceptron Network.
MLP everyday_life (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 Network.
MLP everyday_life (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 16:07:16
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 everyday_life (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZ ED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDC ONJUGATE 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	00:00:00.45

Case Processing Summary

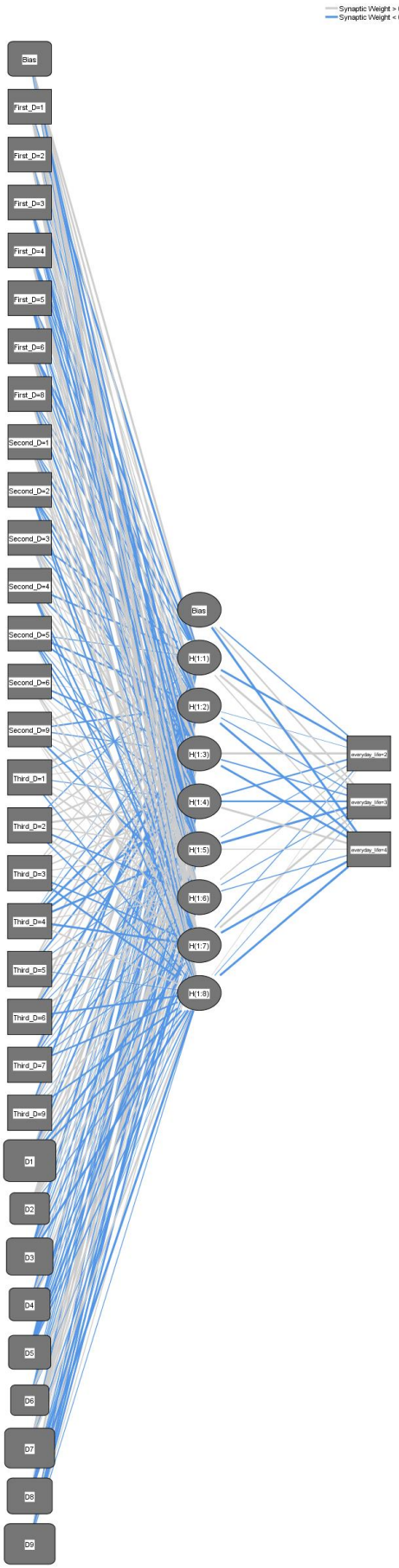
		N	Percent
Sample	Training	12	80.0%
	Testing	3	20.0%
Valid		15	100.0%
Excluded		89	
Total		104	

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	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT
		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		31
	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	Changes in everyday life
	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	6.405
	Percent Incorrect Predictions	25.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	1.371
	Percent Incorrect Predictions	0.0%

Dependent Variable: Changes in everyday life

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)	[everyday_life=2]	[everyday_life=3]	[everyday_life=4]
Input Layer	(Bias)	.533	.421	.262	-.407	-.466	.490	.804	-.105			
	[First_D=1]	-.603	.159	.265	.313	.463	-.100	.163	.425			
	[First_D=2]	.099	-.148	.203	-.424	.128	.457	.335	.106			
	[First_D=3]	.067	.035	-.255	-.082	-.407	-.380	.068	-.066			
	[First_D=4]	-.453	-.316	-.302	-.180	-.414	.530	.484	.324			
	[First_D=5]	-.250	.310	-.013	-.004	-.399	-.042	.032	-.188			
	[First_D=6]	-.607	-.505	.646	-.216	.373	.451	.082	.293			
	[First_D=8]	-.163	-.199	.265	-.079	-.426	.113	.252	.272			
	[Second_D=1]	.005	-.185	-.332	.542	-.223	.316	.260	.399			
	[Second_D=2]	.055	.297	-.415	-.303	-.102	.085	-.386	-.305			
	[Second_D=3]	-.385	.229	-.243	.293	.582	.070	-.048	.283			
	[Second_D=4]	-.426	.172	-.340	.078	.555	.155	-.370	-.239			
	[Second_D=5]	-.127	-.458	-.346	.057	-.151	-.274	-.225	.032			

	[Second_D=6]	.045	.036	-.391	-.228	.094	.037	.439	.145			
	[Second_D=9]	.340	-.344	-.189	.209	-.040	-.441	.330	.051			
	[Third_D=1]	.550	-.126	.087	-.113	.149	.352	.156	-.217			
	[Third_D=2]	-.191	.291	.345	.555	.229	-.344	.423	-.267			
	[Third_D=3]	.166	.117	.100	.258	.140	.110	-.308	-.477			
	[Third_D=4]	-.012	-.200	-.764	-.479	-.589	.165	-.561	.300			
	[Third_D=5]	.333	.151	-.344	.114	-.113	.575	.061	-.083			
	[Third_D=6]	.562	.208	-.441	.142	-.090	.410	-.003	-.423			
	[Third_D=7]	.267	-.374	.236	-.234	-.035	-.227	-.135	-.349			
	[Third_D=9]	-.441	.086	.294	-.078	.021	-.007	.253	-.359			
	D1	.337	-.074	-.370	.447	.321	-.061	-.559	-.450			
	D2	.092	.435	.258	.250	.217	.359	.145	-.146			
	D3	-.662	-.079	-.026	-.199	.362	-.282	.159	-.651			
	D4	-.091	-.033	-.111	.071	.389	.035	-.258	.209			
	D5	-.529	-.180	-.292	-.094	-.261	-.556	-.248	-.223			
	D6	-.071	-.012	-.165	-.135	-.169	.667	.088	-.058			
	D7	.104	-.275	.404	.421	.584	.208	-.204	.404			
	D8	.308	.011	.036	-.197	-.175	-.832	-.001	-.718			
	D9	-.230	.011	.794	-.420	-.462	-.409	.121	-.099			
Hidden Layer 1	(Bias)									-.225	.321	-.814
	H(1:1)									-.600	.563	.171
	H(1:2)									-.026	-.167	-.675
	H(1:3)									.585	-.252	-.603
	H(1:4)									-.320	-.367	.487
	H(1:5)									-.109	-.799	.125
	H(1:6)									.179	-.150	-.148
	H(1:7)									-.116	.481	-.622
	H(1:8)									.018	-.065	-.626

Classification

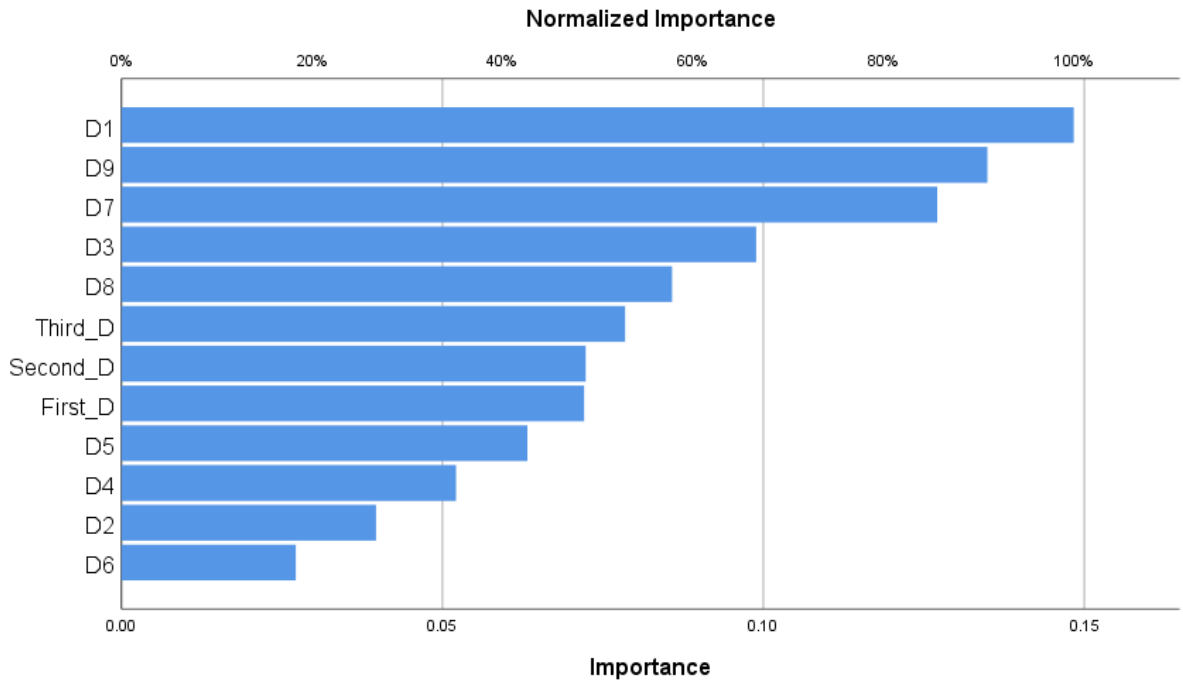
		Predicted			
Sample	Observed	minor changes	noticeable changes	drastic changes	Percent Correct
Training	minor changes	2	3	0	40.0%
	noticeable changes	0	5	0	100.0%
	drastic changes	0	0	2	100.0%
	Overall Percent	16.7%	66.7%	16.7%	75.0%

Testing	minor changes	0	0	0	0.0%
	noticeable changes	0	3	0	100.0%
	drastic changes	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Changes in everyday life

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.072	48.6%
Second discourse in text	.072	48.7%
Third discourse in text	.078	52.9%
CONTACT RESTRICTION	.148	100.0%
SANITATION AND HYGIENE	.040	26.7%
ISOLATION OF INFECTED	.099	66.7%
TOTAL ISOLATION	.052	35.1%
HEALTH CARE	.063	42.6%
VIRUS DISSEMINATION	.027	18.3%
LIFESTYLE CHANGES	.127	85.7%
RIGHTS AND FREEDOMS INFRINGEMENT	.086	57.8%
BUREAUCRATIC RESPONSE	.135	90.9%


Normalized Importance
0%
20%
40%
60%
80%
100%
D1
D9
D7
D3
D8
Third_D
Second_D
First_D
D5
D4
D2
D6
0.00
0.05
0.10
0.15
Importance