```
*Multilayer Perceptron Network.
MLP STR_military (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 17:05:23 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military (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<br><br>ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE . |
| Resources | Processor Time | 00:00:00.47 |
| | 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

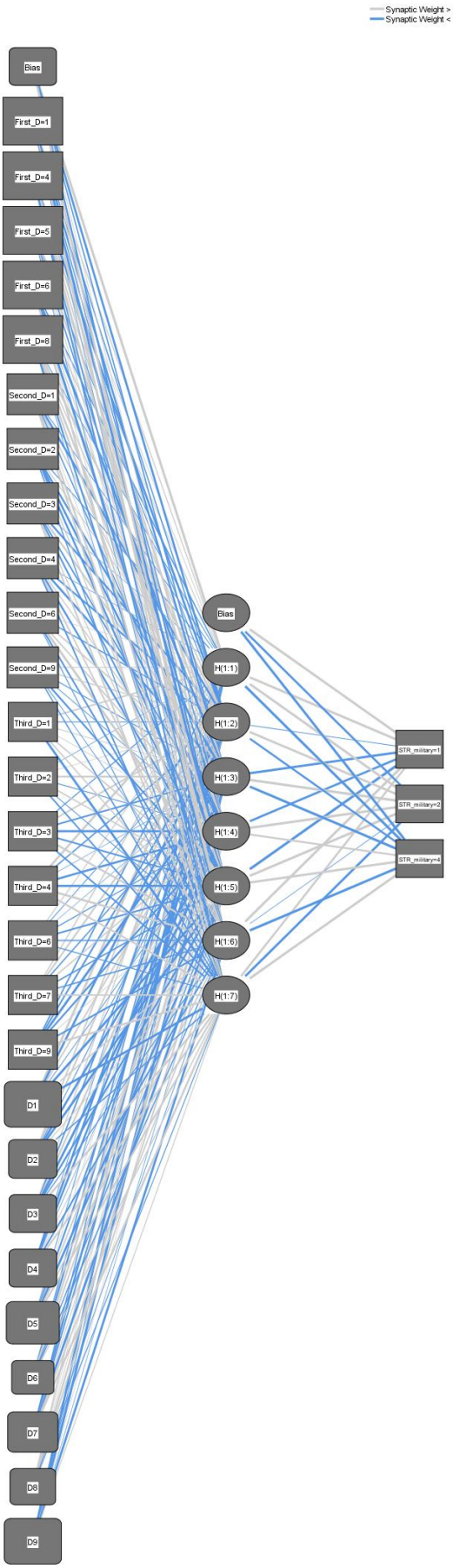
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 10 | 90.9% |
| | Testing | 1 | 9.1% |
| Valid | | 11 | 100.0% |
| Excluded | | 93 | |
| Total | | 104 | |

## 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] | | 27 |
| | 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 | Militarylike strategy |
| | 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 | .003 |
| | Percent Incorrect Predictions | 0.0% |
| | Stopping Rule Used | Training error ratio criterion (.001) achieved |
| | Training Time | 0:00:00.00 |
| Testing | Cross Entropy Error | .002 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

## 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_military =1] | [STR_military =2] | [STR_military =4] |
| Input Layer | (Bias) | .981 | -.561 | -.298 | .070 | -.421 | .565 | .118 | | | |
| | [First_D=1] | .191 | -.246 | -.496 | -.196 | -.818 | .753 | -.019 | | | |
| | [First_D=4] | .073 | -.524 | .499 | .306 | .837 | -.300 | -.395 | | | |
| | [First_D=5] | .142 | -.155 | .513 | -.325 | .125 | .039 | -.081 | | | |
| | [First_D=6] | -.273 | .288 | -.839 | .170 | -.774 | .073 | .467 | | | |
| | [First_D=8] | -.120 | .495 | .209 | .527 | .417 | -.418 | -.052 | | | |
| | [Second_D=1] | -.094 | -.525 | .236 | -.272 | .035 | .481 | .458 | | | |
| | [Second_D=2] | -.164 | .168 | -.463 | -.531 | -.474 | .198 | -.202 | | | |
| | [Second_D=3] | -.005 | -.468 | .431 | -.365 | -.402 | .200 | .416 | | | |
| | [Second_D=4] | -.026 | -.454 | -.565 | .216 | -.464 | .383 | -.381 | | | |
| | [Second_D=6] | .017 | -.259 | .351 | .346 | .682 | -.414 | -.151 | | | |
| | [Second_D=9] | .157 | .218 | -.158 | -.089 | -.431 | -.080 | -.275 | | | |
| | [Third_D=1] | .388 | -.145 | .108 | .047 | .353 | .304 | -.614 | | | |
| | [Third_D=2] | -.028 | .034 | .445 | -.148 | .335 | -.133 | -.374 | | | |
| | [Third_D=3] | -.183 | .391 | -.397 | -.611 | -.392 | .487 | -.398 | | | |
| | [Third_D=4] | .564 | -.315 | -.015 | -.526 | -.592 | .542 | .440 | | | |
| | [Third_D=6] | .174 | -.119 | -.011 | -.190 | -.405 | -.278 | -.170 | | | |
| | [Third_D=7] | .249 | .422 | -.258 | .299 | -.321 | -.289 | .368 | | | |
| | [Third_D=9] | -.329 | -.393 | -.642 | -.443 | .057 | -.412 | .481 | | | |
| | D1 | .715 | -.611 | .371 | -.086 | -.660 | .318 | -.616 | | | |
| | D2 | .364 | .415 | -.137 | -.566 | -.614 | .167 | -.239 | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | D3 | .177 | -.340 | .432 | -.615 | -.462 | -.183 | .518 | | | |
| | D4 | -.077 | -.594 | -.487 | -.013 | .134 | -.409 | .445 | | | |
| | D5 | -.099 | .037 | -.414 | .372 | -.583 | .319 | .422 | | | |
| | D6 | -.233 | -.443 | .455 | .375 | -.223 | -.222 | .220 | | | |
| | D7 | -.214 | -.523 | -.354 | .143 | -.637 | .320 | .515 | | | |
| | D8 | .378 | .021 | .073 | .476 | .385 | -.073 | -.153 | | | |
| | D9 | -.662 | -.120 | -.891 | .001 | -.016 | -.585 | .159 | | | |
| Hidden Layer 1 | (Bias) | | | | | | | | 1.116 | -.568 | -1.043 |
| | H(1:1) | | | | | | | | .869 | .860 | -1.598 |
| | H(1:2) | | | | | | | | -.088 | .639 | -.521 |
| | H(1:3) | | | | | | | | -.669 | 2.109 | -1.153 |
| | H(1:4) | | | | | | | | -.588 | 1.255 | .469 |
| | H(1:5) | | | | | | | | -2.789 | 1.732 | .674 |
| | H(1:6) | | | | | | | | 1.549 | -.060 | -1.574 |
| | H(1:7) | | | | | | | | .550 | -.673 | 1.107 |

## Classification

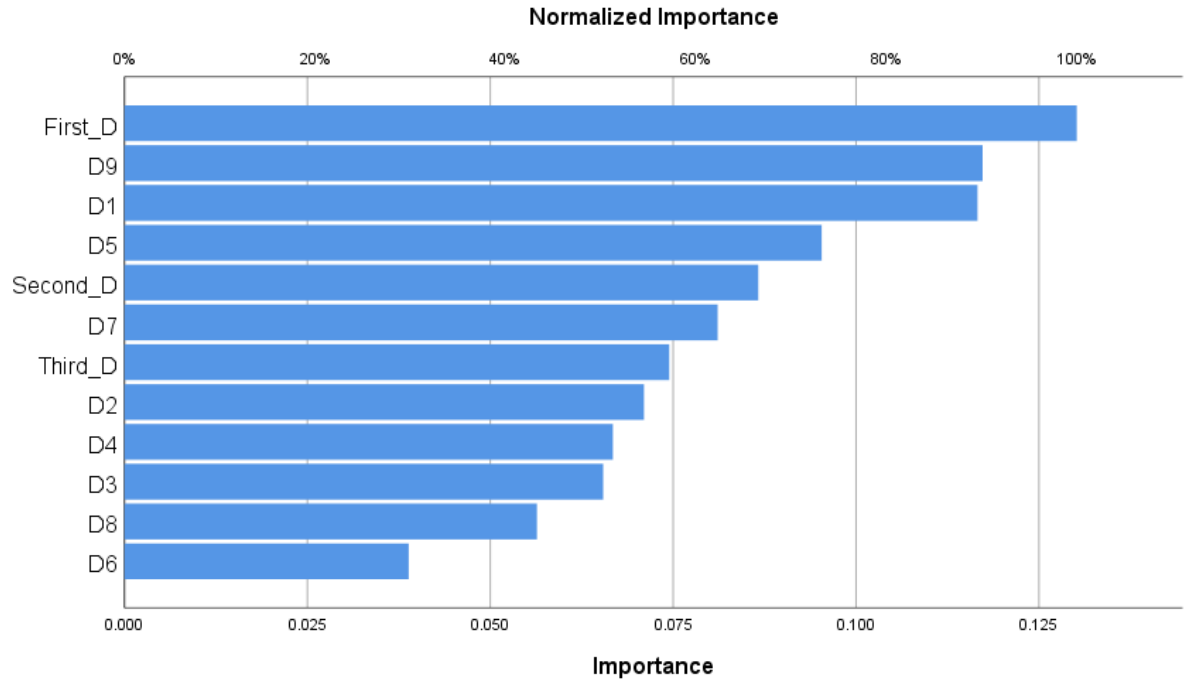
| Sample | Observed | Predicted | | | |
|---|---|---|---|---|---|
| | | worst option | mediocre option | best option | Percent Correct |
| Training | worst option | 7 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 2 | 0 | 100.0% |
| | best option | 0 | 0 | 1 | 100.0% |
| | Overall Percent | 70.0% | 20.0% | 10.0% | 100.0% |
| Testing | worst option | 0 | 0 | 0 | 0.0% |
| | mediocre option | 0 | 0 | 0 | 0.0% |
| | best option | 0 | 0 | 1 | 100.0% |
| | Overall Percent | 0.0% | 0.0% | 100.0% | 100.0% |

Dependent Variable: Militarylike strategy

## Independent Variable Importance

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .130 | 100.0% |
| Second discourse in text | .087 | 66.5% |
| Third discourse in text | .074 | 57.2% |
| CONTACT RESTRICTION | .117 | 89.6% |
| SANITATION AND HYGIENE | .071 | 54.6% |

| | | |
|---|---|---|
| ISOLATION OF INFECTED | .065 | 50.3% |
| TOTAL ISOLATION | .067 | 51.3% |
| HEALTH CARE | .095 | 73.2% |
| VIRUS DISSEMINATION | .039 | 29.9% |
| LIFESTYLE CHANGES | .081 | 62.3% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .056 | 43.3% |
| BUREAUCRATIC RESPONSE | .117 | 90.1% |




```
*Multilayer Perceptron Network.
MLP STR_military (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 17:05:30 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military (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<br><br>ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE . |
| Resources | Processor Time | 00:00:00.41 |
| | 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

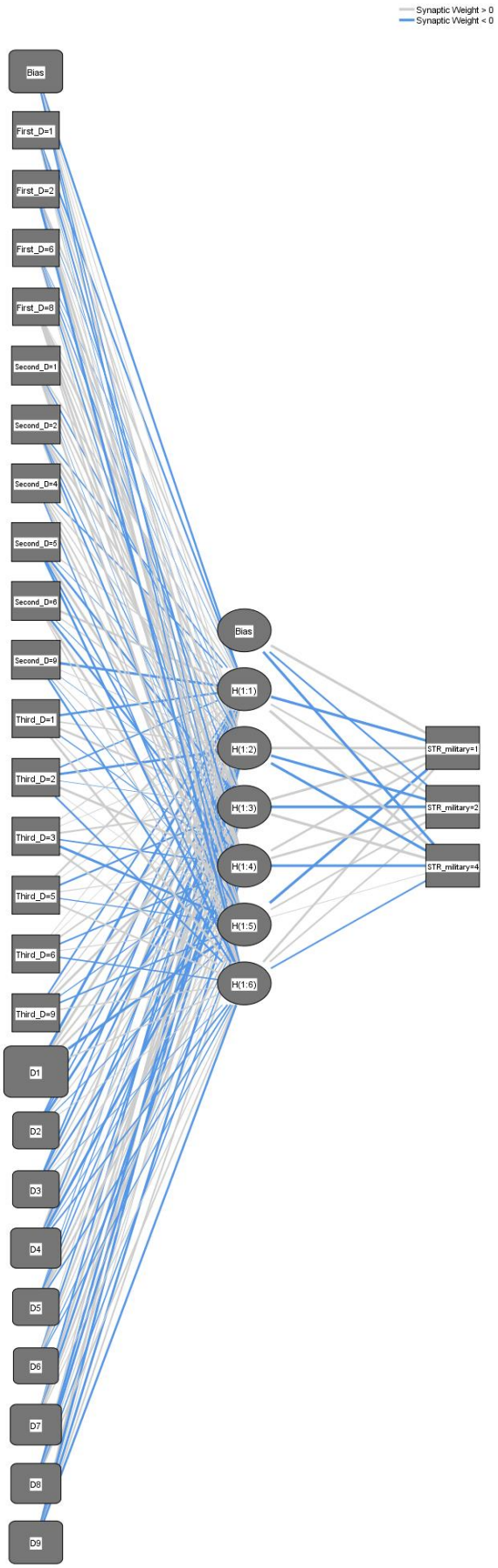
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 8 | 88.9% |
| | Testing | 1 | 11.1% |
| Valid | | 9 | 100.0% |
| Excluded | | 95 | |
| Total | | 104 | |

## 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] | | 6 |
| | Activation Function | | Hyperbolic tangent |
| Output Layer | Dependent Variables | 1 | Militarylike strategy |
| | 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 | .056 |
| | 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 | .013 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

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) | [STR_military=1] | [STR_military=2] | [STR_military=4] |
| Input Layer | (Bias) | -.424 | .098 | .001 | .305 | -.175 | -.221 | | | |
| | [First_D=1] | -.362 | .164 | .251 | -.328 | -.019 | .117 | | | |
| | [First_D=2] | .320 | -.042 | .055 | .716 | .555 | -.727 | | | |
| | [First_D=6] | -.045 | -.031 | -.169 | .393 | -.232 | .105 | | | |
| | [First_D=8] | .008 | .652 | .163 | .526 | .633 | .274 | | | |
| | [Second_D=1] | .186 | -.217 | .363 | .159 | -.006 | .488 | | | |
| | [Second_D=2] | -.201 | .387 | .593 | -.146 | -.353 | .271 | | | |
| | [Second_D=4] | -.229 | .181 | .141 | .307 | .398 | -.204 | | | |
| | [Second_D=5] | .138 | -.059 | -.432 | .663 | -.340 | -.523 | | | |
| | [Second_D=6] | .556 | .174 | -.087 | -.437 | .731 | .172 | | | |
| | [Second_D=9] | -.817 | .064 | -.019 | .102 | -.066 | -.396 | | | |
| | [Third_D=1] | -.512 | .205 | .472 | -.129 | .105 | .570 | | | |
| | [Third_D=2] | -.302 | -.649 | -.013 | .595 | .016 | -.364 | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [Third_D=3] | .108 | .033 | .350 | -.256 | -.684 | .415 | | | |
| | [Third_D=5] | .402 | .026 | -.355 | .075 | -.141 | .345 | | | |
| | [Third_D=6] | .051 | .001 | .326 | -.323 | .075 | -.228 | | | |
| | [Third_D=9] | -.338 | .122 | .559 | -.125 | -.316 | .177 | | | |
| | D1 | -.944 | .983 | .380 | .473 | -1.021 | .228 | | | |
| | D2 | -.338 | -.253 | -.588 | .109 | -.110 | .055 | | | |
| | D3 | -.314 | -.407 | .223 | -.395 | .032 | -.064 | | | |
| | D4 | .498 | -.386 | .387 | -.853 | -.070 | -.308 | | | |
| | D5 | -.060 | -.151 | -.220 | .408 | .397 | -.276 | | | |
| | D6 | .073 | -.333 | .434 | .082 | -.103 | -.152 | | | |
| | D7 | -.378 | .513 | -.494 | .464 | .051 | .112 | | | |
| | D8 | .183 | -.678 | -.598 | .124 | -.198 | .298 | | | |
| | D9 | .555 | -.707 | .078 | -.537 | .320 | -.457 | | | |
| Hidden Layer 1 | (Bias) | | | | | | | .775 | -.369 | -1.141 |
| | H(1:1) | | | | | | | -1.634 | .369 | 1.281 |
| | H(1:2) | | | | | | | 1.043 | -.979 | -1.100 |
| | H(1:3) | | | | | | | .748 | -1.282 | 1.417 |
| | H(1:4) | | | | | | | .490 | .569 | -.930 |
| | H(1:5) | | | | | | | -1.544 | .345 | .032 |
| | H(1:6) | | | | | | | .524 | .335 | -.333 |

## Classification

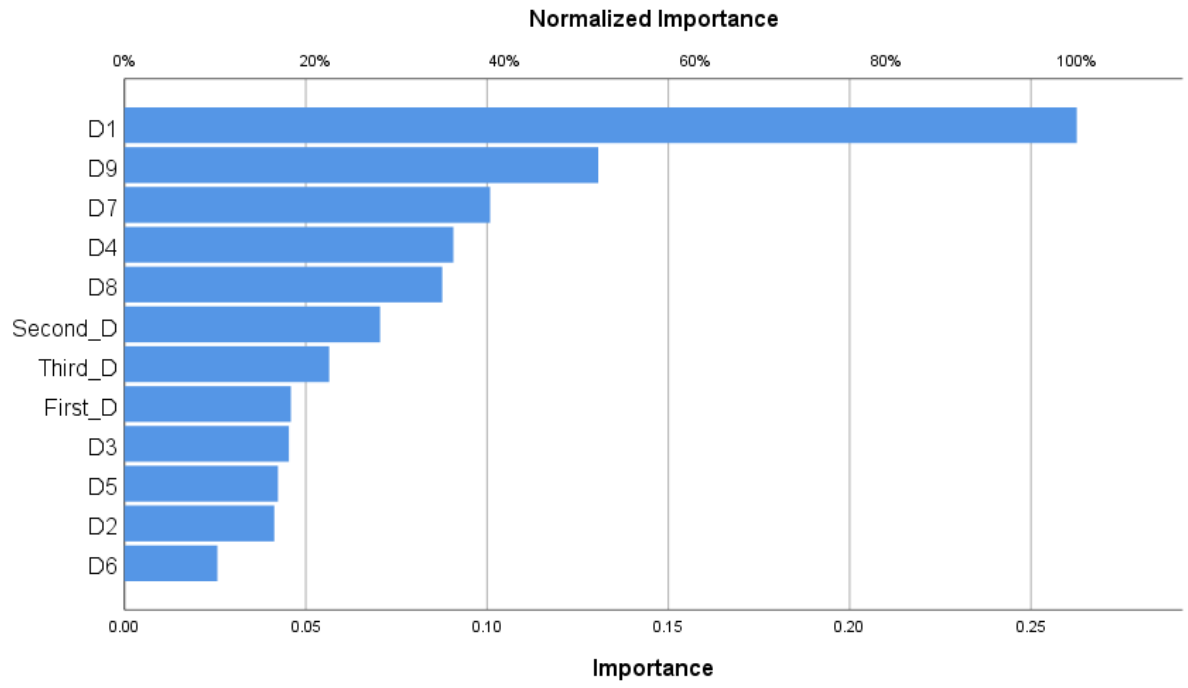
| Sample | Observed | Predicted | | | |
|---|---|---|---|---|---|
| | | worst option | mediocre option | best option | Percent Correct |
| Training | worst option | 5 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 2 | 0 | 100.0% |
| | best option | 0 | 0 | 1 | 100.0% |
| | Overall Percent | 62.5% | 25.0% | 12.5% | 100.0% |
| Testing | worst option | 1 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 0 | 0 | 0.0% |
| | best option | 0 | 0 | 0 | 0.0% |
| | Overall Percent | 100.0% | 0.0% | 0.0% | 100.0% |

Dependent Variable: Militarylike strategy

## Independent Variable Importance

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .046 | 17.5% |

| | | |
|---|---|---|
| Second discourse in text | .071 | 26.8% |
| Third discourse in text | .056 | 21.5% |
| CONTACT RESTRICTION | .263 | 100.0% |
| SANITATION AND HYGIENE | .041 | 15.7% |
| ISOLATION OF INFECTED | .045 | 17.3% |
| TOTAL ISOLATION | .091 | 34.5% |
| HEALTH CARE | .042 | 16.1% |
| VIRUS DISSEMINATION | .026 | 9.8% |
| LIFESTYLE CHANGES | .101 | 38.4% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .088 | 33.4% |
| BUREAUCRATIC RESPONSE | .131 | 49.8% |




```
*Multilayer Perceptron Network.
MLP STR_military (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 17:05:40 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military (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<br><br>ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE . |
| Resources | Processor Time | 00:00:00.44 |
| | Elapsed Time | 00:00:00.42 |

## 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

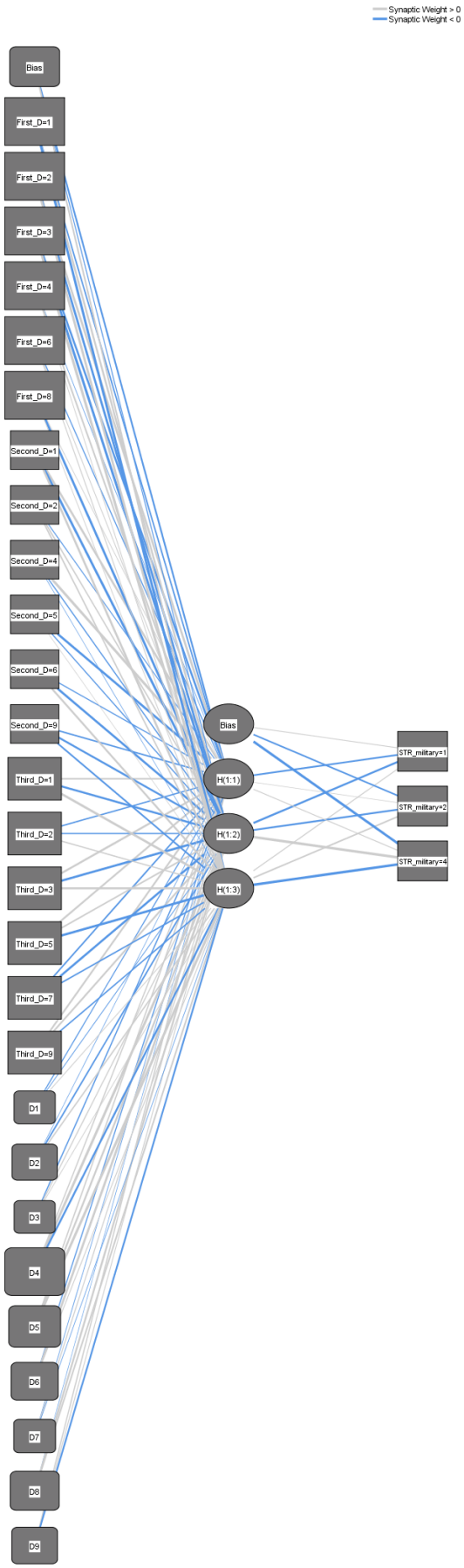
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 10 | 76.9% |
| | Testing | 3 | 23.1% |
| Valid | | 13 | 100.0% |
| Excluded | | 91 | |
| Total | | 104 | |

## 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] | | 3 |
| | Activation Function | | Hyperbolic tangent |
| Output Layer | Dependent Variables | 1 | Militarylike strategy |
| | 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 | 6.162 |
| | Percent Incorrect Predictions | 30.0% |
| | Stopping Rule Used | 1 consecutive step(s) with no decrease in error[a] |
| | Training Time | 0:00:00.02 |
| Testing | Cross Entropy Error | 1.219 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

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) | [STR_military =1] | [STR_military =2] | [STR_military =4] |
| Input Layer | (Bias) | -.444 | -.108 | .411 | | | |
| | [First_D=1] | -.311 | .518 | -.867 | | | |
| | [First_D=2] | .646 | -.665 | .786 | | | |
| | [First_D=3] | -.569 | -.897 | 1.280 | | | |
| | [First_D=4] | -.017 | .418 | .042 | | | |
| | [First_D=6] | -.130 | .065 | .084 | | | |
| | [First_D=8] | .024 | -.803 | .038 | | | |
| | [Second_D=1] | .626 | -.864 | .630 | | | |
| | [Second_D=2] | -.107 | .267 | .302 | | | |
| | [Second_D=4] | 1.190 | -.182 | -.007 | | | |
| | [Second_D=5] | -.745 | -.179 | .012 | | | |
| | [Second_D=6] | -.160 | -.657 | .521 | | | |
| | [Second_D=9] | -.315 | -.532 | -.439 | | | |
| | [Third_D=1] | .422 | -.599 | .819 | | | |
| | [Third_D=2] | -.280 | -.273 | .244 | | | |
| | [Third_D=3] | .584 | -.677 | .619 | | | |
| | [Third_D=5] | .515 | .338 | -.839 | | | |
| | [Third_D=7] | -.328 | -.649 | -.313 | | | |
| | [Third_D=9] | .457 | .464 | -.301 | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | D1 | -.120 | -.049 | .060 | | | |
| | D2 | -.008 | -.315 | .277 | | | |
| | D3 | -.203 | .121 | .030 | | | |
| | D4 | .183 | .901 | -.531 | | | |
| | D5 | .265 | .502 | .980 | | | |
| | D6 | -.147 | .676 | .080 | | | |
| | D7 | -.023 | .111 | -.018 | | | |
| | D8 | -.002 | .508 | .343 | | | |
| | D9 | .198 | .076 | -.445 | | | |
| Hidden Layer 1 | (Bias) | | | | .067 | -.399 | -1.034 |
| | H(1:1) | | | | -.441 | .013 | .105 |
| | H(1:2) | | | | -.582 | -.476 | 1.529 |
| | H(1:3) | | | | .111 | .333 | -1.457 |

## Classification

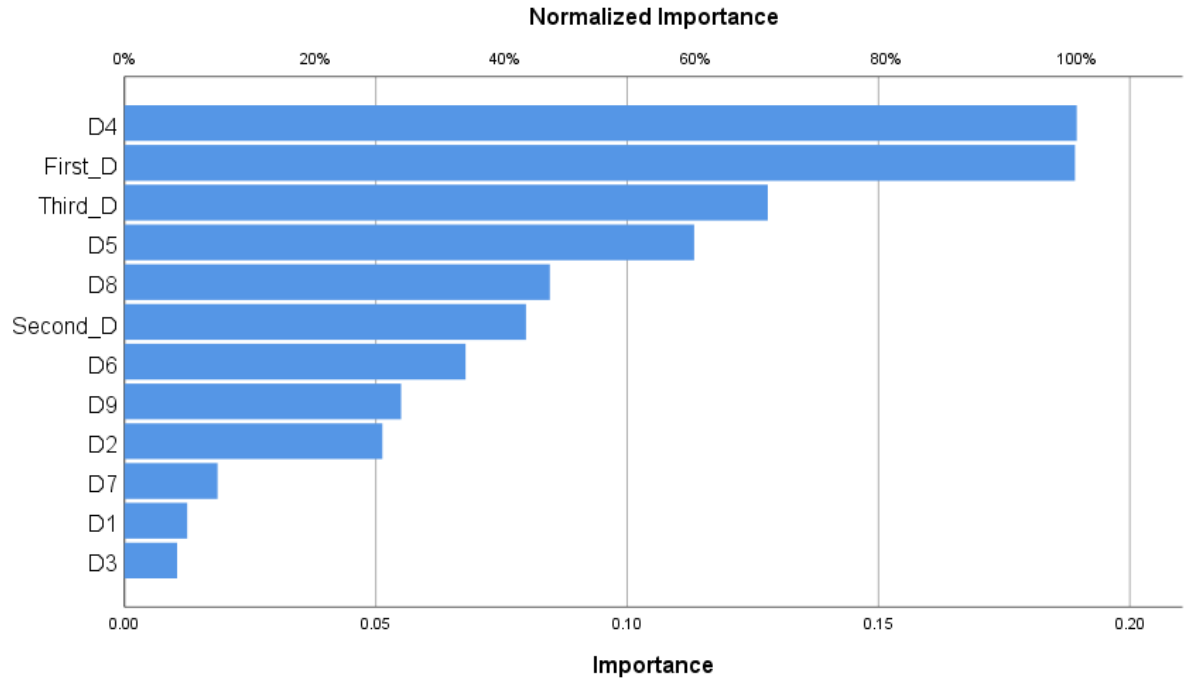
| | | Predicted | | | |
|---|---|---|---|---|---|
| Sample | Observed | worst option | mediocre option | best option | Percent Correct |
| Training | worst option | 4 | 0 | 0 | 100.0% |
| | mediocre option | 3 | 1 | 0 | 25.0% |
| | best option | 0 | 0 | 2 | 100.0% |
| | Overall Percent | 70.0% | 10.0% | 20.0% | 70.0% |
| Testing | worst option | 3 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 0 | 0 | 0.0% |
| | best option | 0 | 0 | 0 | 0.0% |
| | Overall Percent | 100.0% | 0.0% | 0.0% | 100.0% |

Dependent Variable: Militarylike strategy

## Independent Variable Importance

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .189 | 99.8% |
| Second discourse in text | .080 | 42.2% |
| Third discourse in text | .128 | 67.6% |
| CONTACT RESTRICTION | .012 | 6.6% |
| SANITATION AND HYGIENE | .051 | 27.1% |
| ISOLATION OF INFECTED | .010 | 5.5% |
| TOTAL ISOLATION | .189 | 100.0% |

| | | |
|---|---|---|
| HEALTH CARE | .113 | 59.8% |
| VIRUS DISSEMINATION | .068 | 35.8% |
| LIFESTYLE CHANGES | .019 | 9.8% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .085 | 44.7% |
| BUREAUCRATIC RESPONSE | .055 | 29.0% |




```
*Multilayer Perceptron Network.
MLP STR_military (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 17:05:53 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military (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<br><br>ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE . |
| Resources | Processor Time | 00:00:00.44 |
| | Elapsed Time | 00:00:00.42 |

## 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

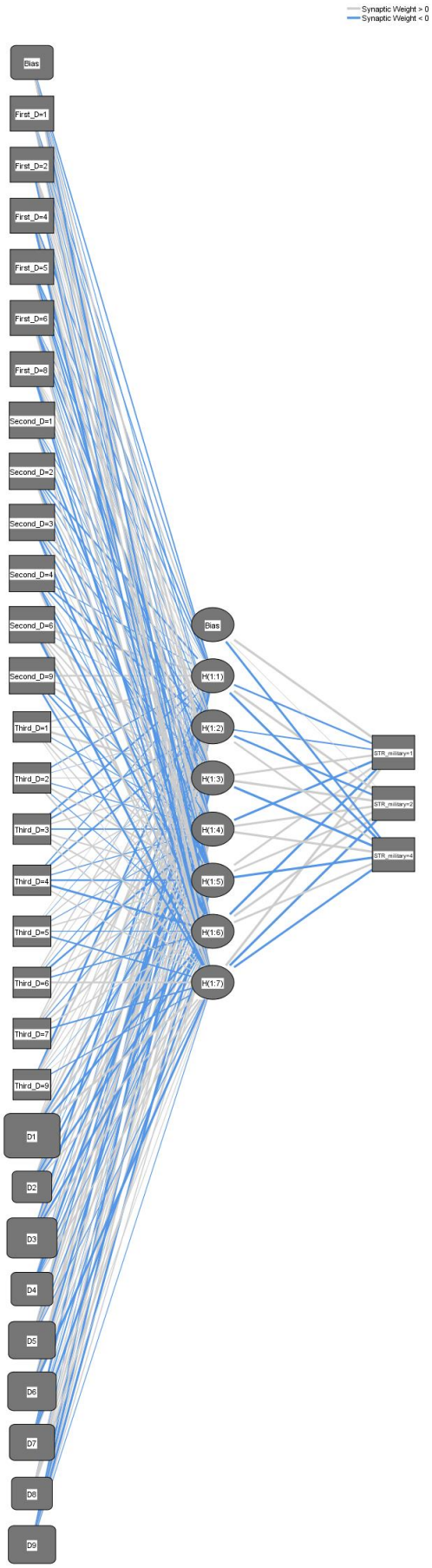
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 11 | 91.7% |
| | Testing | 1 | 8.3% |
| Valid | | 12 | 100.0% |
| Excluded | | 92 | |
| Total | | 104 | |

## 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] | | 29 |
| | 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 | Militarylike strategy |
| | 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 | .001 |
| | Percent Incorrect Predictions | 0.0% |
| | Stopping Rule Used | Training error ratio criterion (.001) achieved |
| | Training Time | 0:00:00.00 |
| Testing | Cross Entropy Error | .000 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

## 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_military =1] | [STR_military =2] | [STR_military =4] |
| Input Layer | (Bias) | -.293 | -.143 | .421 | -.115 | .288 | -.566 | .481 | | | |
| | [First_D=1] | -.246 | -.208 | .576 | -.161 | .362 | -.215 | .232 | | | |
| | [First_D=2] | .316 | .250 | .270 | .113 | -.158 | .662 | -.364 | | | |
| | [First_D=4] | -.336 | .073 | .209 | .431 | .019 | .882 | -.749 | | | |
| | [First_D=5] | -.292 | -.189 | -.003 | -.419 | -.374 | .205 | .421 | | | |
| | [First_D=6] | -.135 | .208 | -.473 | -.397 | -.059 | -.164 | .643 | | | |
| | [First_D=8] | .063 | .271 | .111 | .410 | -.121 | -.203 | -.507 | | | |
| | [Second_D=1] | .008 | -.201 | -.061 | .070 | -.491 | -.063 | .363 | | | |
| | [Second_D=2] | -.440 | -.293 | -.154 | .247 | -.420 | -.152 | .482 | | | |
| | [Second_D=3] | -.007 | -.304 | .350 | -.326 | .101 | -.622 | -.028 | | | |
| | [Second_D=4] | -.198 | -.468 | -.337 | .079 | -.224 | -.716 | .477 | | | |
| | [Second_D=6] | .758 | -.013 | .702 | .316 | .310 | .540 | -.953 | | | |
| | [Second_D=9] | .544 | .257 | .517 | -.248 | -.412 | .043 | -.510 | | | |
| | [Third_D=1] | .498 | .040 | .784 | -.196 | .336 | .283 | .087 | | | |
| | [Third_D=2] | -.305 | -.002 | .147 | -.225 | .478 | -.189 | .383 | | | |
| | [Third_D=3] | -.515 | -.394 | .304 | -.320 | .334 | .391 | .328 | | | |
| | [Third_D=4] | -.257 | -.478 | .253 | -.232 | -.441 | -.660 | .299 | | | |
| | [Third_D=5] | .004 | -.008 | .257 | -.152 | .289 | -.165 | -.356 | | | |
| | [Third_D=6] | .269 | .105 | -.189 | -.530 | .343 | -.309 | .510 | | | |
| | [Third_D=7] | .285 | .091 | .372 | -.229 | .453 | .266 | -.346 | | | |
| | [Third_D=9] | -.652 | .510 | .152 | .201 | -.004 | .018 | -.258 | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | D1 | .183 | .135 | .500 | -.635 | .907 | -.643 | .815 | | | |
| | D2 | .649 | -.029 | -.044 | -.506 | .427 | -.596 | .325 | | | |
| | D3 | -.650 | .232 | .307 | -.452 | .260 | -.729 | .486 | | | |
| | D4 | -.078 | .472 | -.787 | -.129 | -.314 | -.132 | .344 | | | |
| | D5 | .820 | -.306 | .718 | .193 | -.242 | .339 | -.200 | | | |
| | D6 | .514 | .658 | -.568 | .329 | .262 | .296 | -.983 | | | |
| | D7 | -.724 | .002 | -.052 | -.314 | .129 | -.671 | .182 | | | |
| | D8 | .057 | -.150 | .347 | .416 | .229 | .617 | .091 | | | |
| | D9 | -.788 | .118 | -.912 | .314 | -.767 | .231 | -.152 | | | |
| Hidden Layer 1 | (Bias) | | | | | | | | 1.423 | .013 | -.727 |
| | H(1:1) | | | | | | | | -.478 | 1.879 | -1.060 |
| | H(1:2) | | | | | | | | -.313 | -.682 | .618 |
| | H(1:3) | | | | | | | | .619 | 2.218 | -2.339 |
| | H(1:4) | | | | | | | | -.885 | .760 | .845 |
| | H(1:5) | | | | | | | | .668 | .646 | -1.031 |
| | H(1:6) | | | | | | | | -2.068 | 1.199 | .659 |
| | H(1:7) | | | | | | | | 2.644 | -1.637 | -.754 |

## Classification

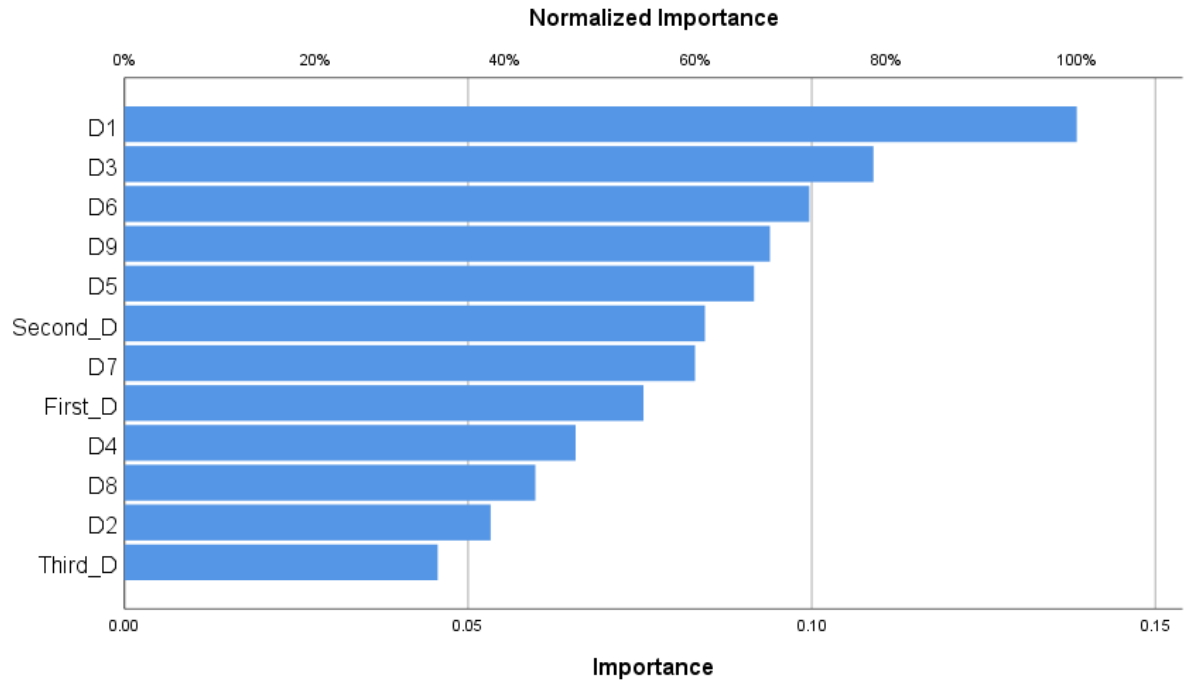
| | | Predicted | | | |
|---|---|---|---|---|---|
| Sample | Observed | worst option | mediocre option | best option | Percent Correct |
| Training | worst option | 7 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 3 | 0 | 100.0% |
| | best option | 0 | 0 | 1 | 100.0% |
| | Overall Percent | 63.6% | 27.3% | 9.1% | 100.0% |
| Testing | worst option | 0 | 0 | 0 | 0.0% |
| | mediocre option | 0 | 0 | 0 | 0.0% |
| | best option | 0 | 0 | 1 | 100.0% |
| | Overall Percent | 0.0% | 0.0% | 100.0% | 100.0% |

Dependent Variable: Militarylike strategy

## Independent Variable Importance

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .076 | 54.5% |
| Second discourse in text | .084 | 60.9% |
| Third discourse in text | .046 | 32.9% |
| CONTACT RESTRICTION | .139 | 100.0% |

| | | |
|---|---|---|
| SANITATION AND HYGIENE | .053 | 38.4% |
| ISOLATION OF INFECTED | .109 | 78.7% |
| TOTAL ISOLATION | .066 | 47.4% |
| HEALTH CARE | .092 | 66.1% |
| VIRUS DISSEMINATION | .100 | 71.9% |
| LIFESTYLE CHANGES | .083 | 59.9% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .060 | 43.2% |
| BUREAUCRATIC RESPONSE | .094 | 67.8% |




```
*Multilayer Perceptron Network.
MLP STR_military (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 17:05:59 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military<br>(MLEVEL=O) BY First_D<br>Second_D Third_D WITH D1<br>D2 D3 D4 D5 D6 D7 D8 D9<br>/RESCALE<br>COVARIATE=STANDARDIZ<br>ED<br>/PARTITION<br>TRAINING=7 TESTING=3<br>HOLDOUT=0<br>/ARCHITECTURE<br>AUTOMATIC=YES<br>(MINUNITS=1<br>MAXUNITS=50)<br>/CRITERIA<br>TRAINING=BATCH<br>OPTIMIZATION=SCALEDC<br>ONJUGATE<br>LAMBDAINITIAL=0.0000005<br>SIGMAINITIAL=0.00005<br>INTERVALCENTER=0<br>INTERVALOFFSET=0.5<br>MEMSIZE=1000<br>/PRINT CPS<br>NETWORKINFO SUMMARY<br>CLASSIFICATION<br>SOLUTION IMPORTANCE<br>/PLOT NETWORK<br>/STOPPINGRULES<br>ERRORSTEPS= 1<br>(DATA=AUTO)<br>TRAININGTIMER=ON<br>(MAXTIME=15)<br>MAXEPOCHS=AUTO<br><br>ERRORCHANGE=1.0E-4<br>ERRORRATIO=0.001<br>/MISSING<br>USERMISSING=EXCLUDE . |
| Resources | Processor Time | 00:00:00.42 |
| | 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

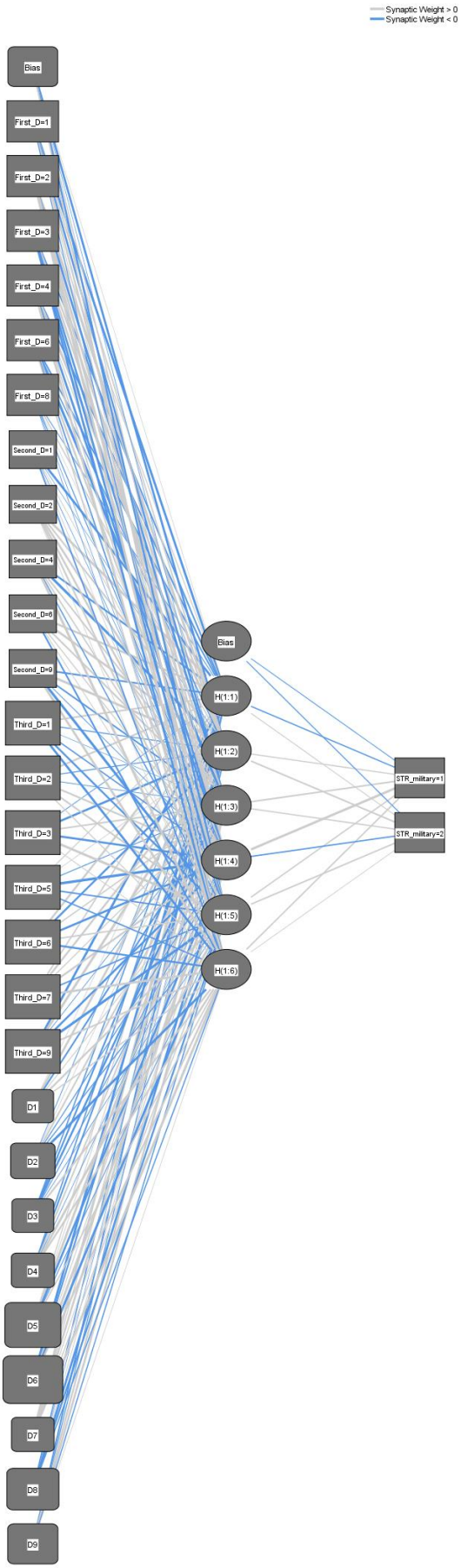
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 10 | 90.9% |
| | Testing | 1 | 9.1% |
| Valid | | 11 | 100.0% |
| Excluded | | 93 | |
| Total | | 104 | |

## 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] | | 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 | Militarylike strategy |
| | 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 | 4.350 |
| | Percent Incorrect Predictions | 10.0% |
| | Stopping Rule Used | 1 consecutive step(s) with no decrease in error[a] |
| | Training Time | 0:00:00.03 |
| Testing | Cross Entropy Error | .429 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

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) | [STR_military=1] | [STR_military=2] |
| Input Layer | (Bias) | .013 | -.551 | -.021 | .207 | -.447 | .317 | | |
| | [First_D=1] | -.602 | .286 | -.445 | .475 | .091 | -.142 | | |
| | [First_D=2] | .139 | 1.071 | -.584 | .683 | .687 | .959 | | |
| | [First_D=3] | -.311 | .417 | .495 | -.490 | -.576 | -.554 | | |
| | [First_D=4] | -.354 | 1.028 | .144 | -.555 | .246 | .644 | | |
| | [First_D=6] | -.307 | -.198 | -.994 | .432 | -.279 | .285 | | |
| | [First_D=8] | -.104 | .231 | .011 | -.158 | -.014 | -.044 | | |
| | [Second_D=1] | -.591 | -.011 | .065 | -.041 | .056 | -.301 | | |
| | [Second_D=2] | .745 | .401 | .528 | .468 | .404 | .033 | | |
| | [Second_D=4] | -.423 | -1.019 | .318 | .294 | -.219 | .877 | | |
| | [Second_D=6] | .532 | .641 | .394 | .186 | .115 | -.367 | | |
| | [Second_D=9] | -.382 | .817 | -.326 | -.075 | -.914 | .664 | | |
| | [Third_D=1] | .363 | -.184 | -.007 | -.257 | -.443 | -.609 | | |
| | [Third_D=2] | .405 | -.157 | -.077 | .421 | .396 | .188 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | [Third_D=3] | -.087 | -.579 | .349 | -.511 | .815 | .094 | | |
| | [Third_D=5] | .182 | .048 | -.137 | -1.108 | -.298 | -.281 | | |
| | [Third_D=6] | .492 | -.473 | .265 | -.528 | .304 | -.435 | | |
| | [Third_D=7] | .284 | .465 | .192 | .465 | -.298 | .596 | | |
| | [Third_D=9] | -.680 | .825 | -.060 | -.504 | -.972 | .387 | | |
| | D1 | .022 | .574 | -.358 | .126 | .441 | .275 | | |
| | D2 | -.079 | .033 | .380 | -.178 | -.196 | -.687 | | |
| | D3 | -.254 | -.371 | -.478 | -.129 | -.047 | .407 | | |
| | D4 | -.256 | -.343 | .321 | -.051 | .691 | .437 | | |
| | D5 | .181 | .057 | .699 | -.517 | -.126 | .268 | | |
| | D6 | -.761 | -.354 | .110 | .794 | -.667 | .431 | | |
| | D7 | .609 | .196 | .499 | .126 | .199 | .802 | | |
| | D8 | -.238 | -.018 | .060 | -.558 | -.409 | -.218 | | |
| | D9 | -.346 | -.152 | .404 | .500 | -.215 | .035 | | |
| Hidden Layer | (Bias) | | | | | | | -.123 | -.166 |
| 1 | H(1:1) | | | | | | | -.240 | .133 |
| | H(1:2) | | | | | | | .214 | .333 |
| | H(1:3) | | | | | | | .322 | .253 |
| | H(1:4) | | | | | | | .730 | -.280 |
| | H(1:5) | | | | | | | .281 | .307 |
| | H(1:6) | | | | | | | .306 | .064 |

## Classification

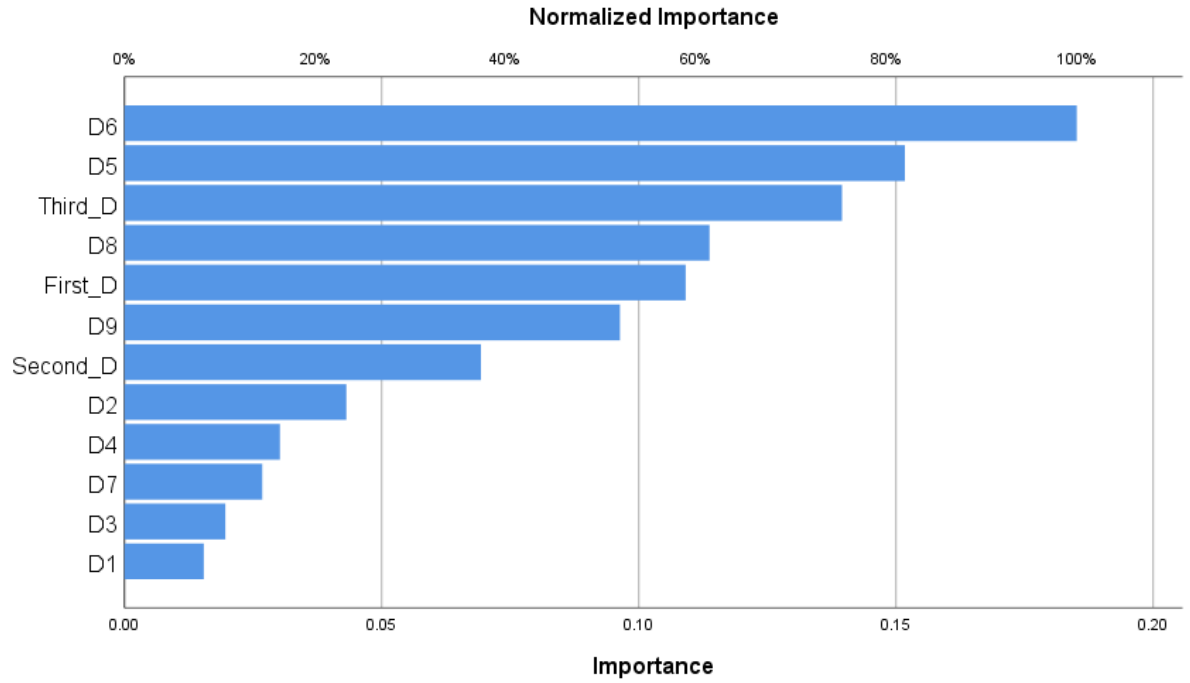
| Sample | Observed | Predicted worst option | Predicted mediocre option | Percent Correct |
|---|---|---|---|---|
| Training | worst option | 7 | 0 | 100.0% |
| | mediocre option | 1 | 2 | 66.7% |
| | Overall Percent | 80.0% | 20.0% | 90.0% |
| Testing | worst option | 0 | 0 | 0.0% |
| | mediocre option | 0 | 1 | 100.0% |
| | Overall Percent | 0.0% | 100.0% | 100.0% |

Dependent Variable: Militarylike strategy

## Independent Variable Importance

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .109 | 58.9% |
| Second discourse in text | .069 | 37.4% |

| | | |
|---|---|---|
| Third discourse in text | .139 | 75.3% |
| CONTACT RESTRICTION | .015 | 8.3% |
| SANITATION AND HYGIENE | .043 | 23.3% |
| ISOLATION OF INFECTED | .020 | 10.6% |
| TOTAL ISOLATION | .030 | 16.3% |
| HEALTH CARE | .152 | 81.9% |
| VIRUS DISSEMINATION | .185 | 100.0% |
| LIFESTYLE CHANGES | .027 | 14.5% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .114 | 61.4% |
| BUREAUCRATIC RESPONSE | .096 | 52.0% |




```
*Multilayer Perceptron Network.
MLP STR_military (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 17:06:06 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military (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<br><br>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

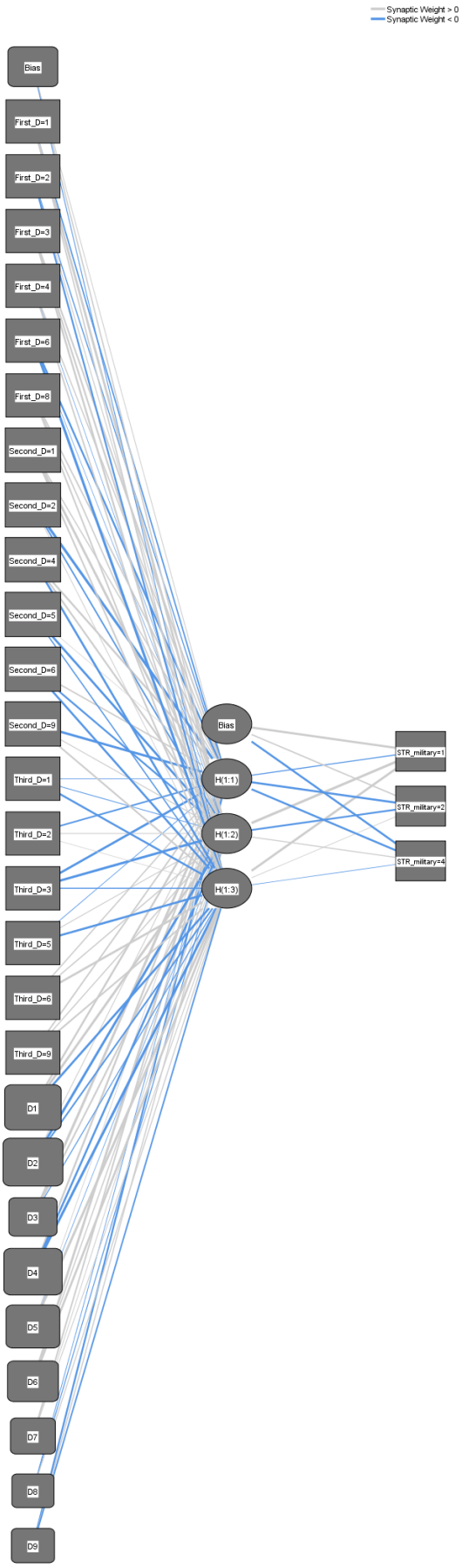
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 12 | 92.3% |
| | Testing | 1 | 7.7% |
| Valid | | 13 | 100.0% |
| Excluded | | 91 | |
| Total | | 104 | |

## 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] | | 27 |
| | Rescaling Method for Covariates | | Standardized |
| Hidden Layer(s) | Number of Hidden Layers | | 1 |
| | Number of Units in Hidden Layer 1[a] | | 3 |
| | Activation Function | | Hyperbolic tangent |
| Output Layer | Dependent Variables | 1 | Militarylike strategy |
| | 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 | 9.491 |
| | Percent Incorrect Predictions | 33.3% |
| | Stopping Rule Used | 1 consecutive step(s) with no decrease in error[a] |
| | Training Time | 0:00:00.03 |
| Testing | Cross Entropy Error | .066 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

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) | [STR_military =1] | [STR_military =2] | [STR_military =4] |
| Input Layer | (Bias) | .090 | .256 | -.098 | | | |
| | [First_D=1] | -.270 | .871 | .268 | | | |
| | [First_D=2] | -.147 | .108 | -.397 | | | |
| | [First_D=3] | .305 | .351 | .479 | | | |
| | [First_D=4] | .185 | -.018 | .284 | | | |
| | [First_D=6] | -.461 | -.003 | -1.320 | | | |
| | [First_D=8] | .282 | .260 | .299 | | | |
| | [Second_D=1] | .203 | .973 | .315 | | | |
| | [Second_D=2] | -1.494 | -.286 | .071 | | | |
| | [Second_D=4] | .491 | .429 | -.633 | | | |
| | [Second_D=5] | .000 | -.767 | -.224 | | | |
| | [Second_D=6] | .276 | -.445 | -.601 | | | |
| | [Second_D=9] | -.997 | .131 | .361 | | | |
| | [Third_D=1] | -.041 | -.087 | -.534 | | | |
| | [Third_D=2] | -.304 | .106 | .006 | | | |
| | [Third_D=3] | -.881 | -1.010 | -.154 | | | |
| | [Third_D=5] | -.047 | .107 | -.651 | | | |
| | [Third_D=6] | .253 | .245 | .685 | | | |
| | [Third_D=9] | .296 | .177 | .347 | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | D1 | .494 | 1.003 | -.717 | | | |
| | D2 | .092 | -1.099 | -.322 | | | |
| | D3 | 1.190 | .339 | -.132 | | | |
| | D4 | .453 | -.549 | -1.225 | | | |
| | D5 | .032 | -.031 | 1.093 | | | |
| | D6 | .903 | .159 | .685 | | | |
| | D7 | .294 | .082 | .104 | | | |
| | D8 | -.052 | -.108 | .132 | | | |
| | D9 | -.438 | .151 | -.293 | | | |
| Hidden Layer 1 | (Bias) | | | | .753 | .270 | -.558 |
| | H(1:1) | | | | -.142 | -.590 | -.501 |
| | H(1:2) | | | | 1.257 | -.418 | .132 |
| | H(1:3) | | | | .866 | .038 | -.032 |

## Classification

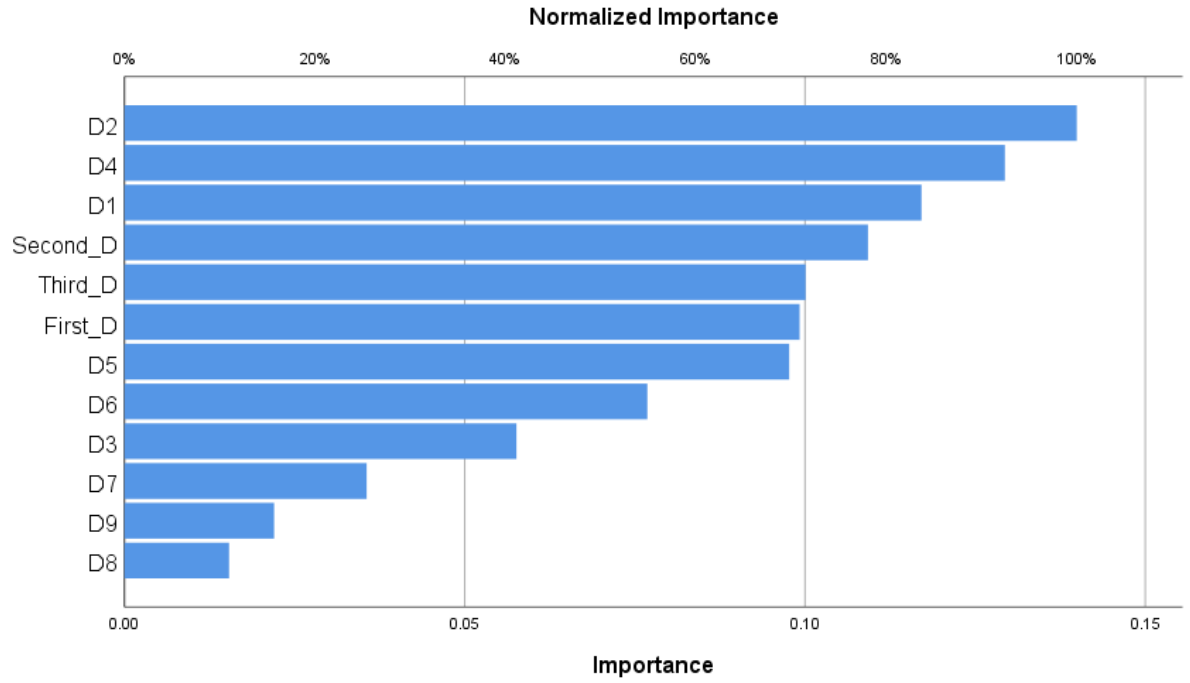
| | | Predicted | | | |
|---|---|---|---|---|---|
| Sample | Observed | worst option | mediocre option | best option | Percent Correct |
| Training | worst option | 5 | 1 | 0 | 83.3% |
| | mediocre option | 1 | 3 | 0 | 75.0% |
| | best option | 1 | 1 | 0 | 0.0% |
| | Overall Percent | 58.3% | 41.7% | 0.0% | 66.7% |
| Testing | worst option | 1 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 0 | 0 | 0.0% |
| | best option | 0 | 0 | 0 | 0.0% |
| | Overall Percent | 100.0% | 0.0% | 0.0% | 100.0% |

Dependent Variable: Militarylike strategy

## Independent Variable Importance

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .099 | 70.9% |
| Second discourse in text | .109 | 78.1% |
| Third discourse in text | .100 | 71.5% |
| CONTACT RESTRICTION | .117 | 83.7% |
| SANITATION AND HYGIENE | .140 | 100.0% |
| ISOLATION OF INFECTED | .058 | 41.2% |
| TOTAL ISOLATION | .129 | 92.5% |

| | | |
|---|---|---|
| HEALTH CARE | .098 | 69.8% |
| VIRUS DISSEMINATION | .077 | 54.9% |
| LIFESTYLE CHANGES | .036 | 25.4% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .015 | 11.0% |
| BUREAUCRATIC RESPONSE | .022 | 15.7% |




```
*Multilayer Perceptron Network.
MLP STR_military (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 17:06:12 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military<br>(MLEVEL=O) BY First_D<br>Second_D Third_D WITH D1<br>D2 D3 D4 D5 D6 D7 D8 D9<br>/RESCALE<br>COVARIATE=STANDARDIZ<br>ED<br>/PARTITION<br>TRAINING=7 TESTING=3<br>HOLDOUT=0<br>/ARCHITECTURE<br>AUTOMATIC=YES<br>(MINUNITS=1<br>MAXUNITS=50)<br>/CRITERIA<br>TRAINING=BATCH<br>OPTIMIZATION=SCALEDC<br>ONJUGATE<br>LAMBDAINITIAL=0.0000005<br>SIGMAINITIAL=0.00005<br>INTERVALCENTER=0<br>INTERVALOFFSET=0.5<br>MEMSIZE=1000<br>/PRINT CPS<br>NETWORKINFO SUMMARY<br>CLASSIFICATION<br>SOLUTION IMPORTANCE<br>/PLOT NETWORK<br>/STOPPINGRULES<br>ERRORSTEPS= 1<br>(DATA=AUTO)<br>TRAININGTIMER=ON<br>(MAXTIME=15)<br>MAXEPOCHS=AUTO<br><br>ERRORCHANGE=1.0E-4<br>ERRORRATIO=0.001<br>/MISSING<br>USERMISSING=EXCLUDE . |
| Resources | Processor Time | 00:00:00.42 |
| | 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

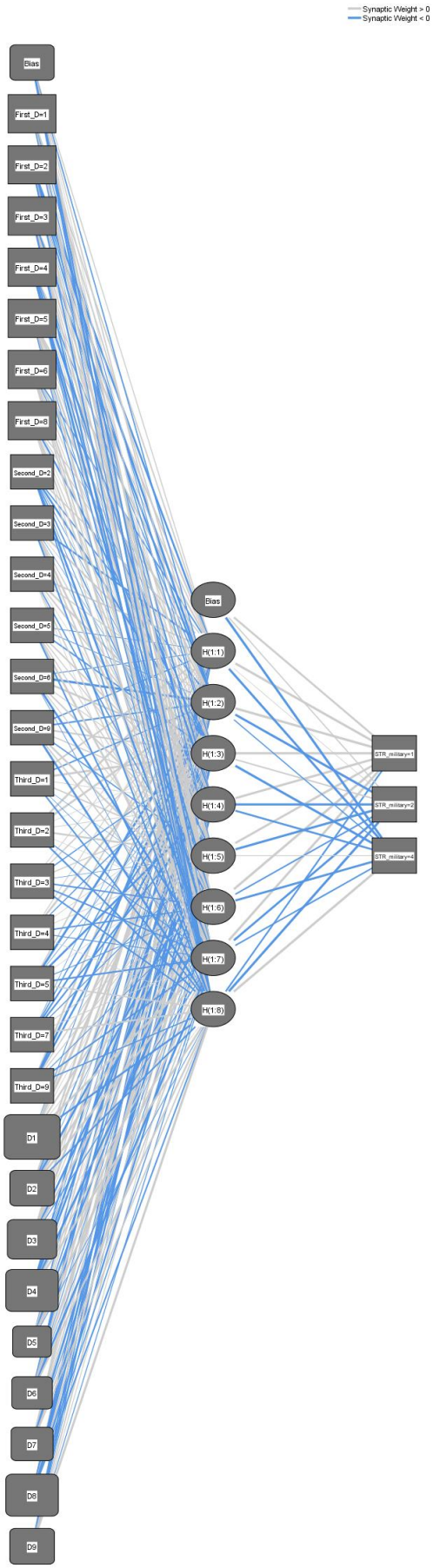
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 12 | 92.3% |
| | Testing | 1 | 7.7% |
| Valid | | 13 | 100.0% |
| Excluded | | 91 | |
| Total | | 104 | |

## 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] | | 29 |
| | 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 | Militarylike strategy |
| | 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 | .193 |
| | 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 | .001 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

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_militar y=1] | [STR_militar y=2] | [STR_militar y=4] |
| Input Layer | (Bias) | .184 | -.244 | .275 | .057 | .141 | .824 | -.431 | -.551 | | | |
| | [First_D=1] | .323 | .314 | -.140 | .080 | -.173 | .423 | .687 | -.177 | | | |
| | [First_D=2] | -.534 | -.767 | -.243 | -.397 | -.012 | .468 | .157 | -.398 | | | |
| | [First_D=3] | .422 | -.533 | .137 | .362 | .182 | .477 | -.079 | -.460 | | | |
| | [First_D=4] | .210 | -.183 | .127 | -.726 | .091 | -.411 | -1.046 | -.205 | | | |
| | [First_D=5] | .453 | .600 | .101 | .142 | .485 | -.115 | .495 | -.191 | | | |
| | [First_D=6] | -.297 | .519 | -.169 | .163 | .101 | .454 | .306 | .453 | | | |
| | [First_D=8] | .225 | .191 | -.439 | .048 | .156 | .374 | .098 | .203 | | | |
| | [Second_D=2] | .293 | -.282 | -.503 | -.088 | -.258 | -.091 | -.653 | -.283 | | | |
| | [Second_D=3] | -.459 | .443 | .084 | -.039 | .195 | .598 | .365 | -.388 | | | |
| | [Second_D=4] | .397 | .195 | .506 | .345 | .022 | -.269 | .285 | .041 | | | |
| | [Second_D=5] | -.111 | -.115 | -.350 | .371 | .166 | .187 | .569 | -.382 | | | |
| | [Second_D=6] | -.160 | -1.152 | .542 | .138 | .400 | .141 | -.601 | -.084 | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Second_D=9] | -.286 | -.377 | .423 | .215 | -.241 | .516 | .280 | -.622 | | | |
| | [Third_D=1] | .423 | -.331 | .629 | .065 | .323 | -.013 | -.048 | -.385 | | | |
| | [Third_D=2] | .605 | .631 | .018 | .088 | .467 | .009 | -.151 | -.430 | | | |
| | [Third_D=3] | .109 | .244 | -.205 | .200 | -.038 | -.351 | -.360 | -.366 | | | |
| | [Third_D=4] | .124 | .572 | -.187 | .057 | .059 | -.347 | -.130 | .068 | | | |
| | [Third_D=5] | .340 | -.835 | -.049 | -.556 | .021 | -.124 | -.412 | .333 | | | |
| | [Third_D=7] | -.042 | -.218 | -.412 | -.394 | -.170 | .097 | .113 | .406 | | | |
| | [Third_D=9] | .465 | -.781 | -.481 | .228 | .152 | -.138 | -.371 | -.265 | | | |
| | D1 | -.120 | 1.097 | 1.152 | .052 | .442 | .072 | .719 | -.493 | | | |
| | D2 | .515 | .598 | -.227 | -.043 | -.643 | .601 | .736 | -.394 | | | |
| | D3 | .930 | .145 | .804 | .140 | -.567 | .586 | -.187 | .021 | | | |
| | D4 | -.520 | -.090 | -.751 | -.593 | .022 | -.710 | .363 | .529 | | | |
| | D5 | -.328 | .273 | .257 | -.229 | -.437 | .499 | .742 | -.096 | | | |
| | D6 | -.463 | -.478 | .383 | -.116 | .755 | -.092 | -.673 | .436 | | | |
| | D7 | .151 | .547 | .143 | .280 | -.553 | -.118 | .328 | .286 | | | |
| | D8 | .040 | -.377 | -.599 | -.479 | .411 | -.434 | -.196 | -.356 | | | |
| | D9 | -.353 | -.321 | -.477 | -.066 | .365 | .116 | -.142 | .984 | | | |
| Hidden Layer 1 | (Bias) | | | | | | | | | .580 | .234 | -1.663 |
| | H(1:1) | | | | | | | | | 1.455 | .050 | -.987 |
| | H(1:2) | | | | | | | | | 2.267 | -1.295 | -.228 |
| | H(1:3) | | | | | | | | | 1.558 | .358 | -1.370 |
| | H(1:4) | | | | | | | | | 1.004 | -.738 | -.529 |
| | H(1:5) | | | | | | | | | .761 | -1.049 | .104 |
| | H(1:6) | | | | | | | | | 1.786 | -.365 | -.701 |
| | H(1:7) | | | | | | | | | 1.279 | -.696 | -.366 |
| | H(1:8) | | | | | | | | | -.412 | -1.459 | 1.625 |

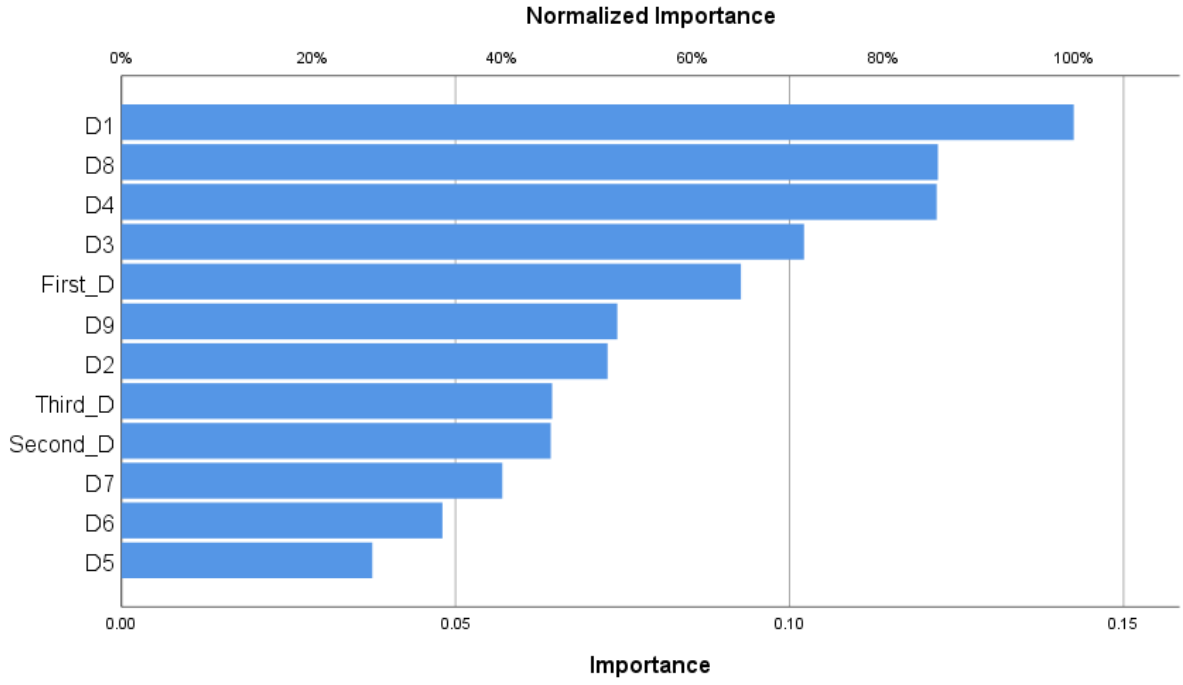
## Classification

| | | Predicted | | | |
|---|---|---|---|---|---|
| Sample | Observed | worst option | mediocre option | best option | Percent Correct |
| Training | worst option | 6 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 4 | 0 | 100.0% |
| | best option | 0 | 0 | 2 | 100.0% |
| | Overall Percent | 50.0% | 33.3% | 16.7% | 100.0% |
| Testing | worst option | 1 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 0 | 0 | 0.0% |
| | best option | 0 | 0 | 0 | 0.0% |
| | Overall Percent | 100.0% | 0.0% | 0.0% | 100.0% |

Dependent Variable: Militarylike strategy

**Independent Variable Importance**

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .093 | 65.1% |
| Second discourse in text | .064 | 45.1% |
| Third discourse in text | .064 | 45.2% |
| CONTACT RESTRICTION | .143 | 100.0% |
| SANITATION AND HYGIENE | .073 | 51.1% |
| ISOLATION OF INFECTED | .102 | 71.7% |
| TOTAL ISOLATION | .122 | 85.6% |
| HEALTH CARE | .038 | 26.3% |
| VIRUS DISSEMINATION | .048 | 33.7% |
| LIFESTYLE CHANGES | .057 | 40.0% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .122 | 85.7% |
| BUREAUCRATIC RESPONSE | .074 | 52.1% |




*Multilayer Perceptron Network.

```
MLP STR_military (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 17:06:29 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military (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<br><br>ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE . |
| Resources | Processor Time | 00:00:00.42 |
| | 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

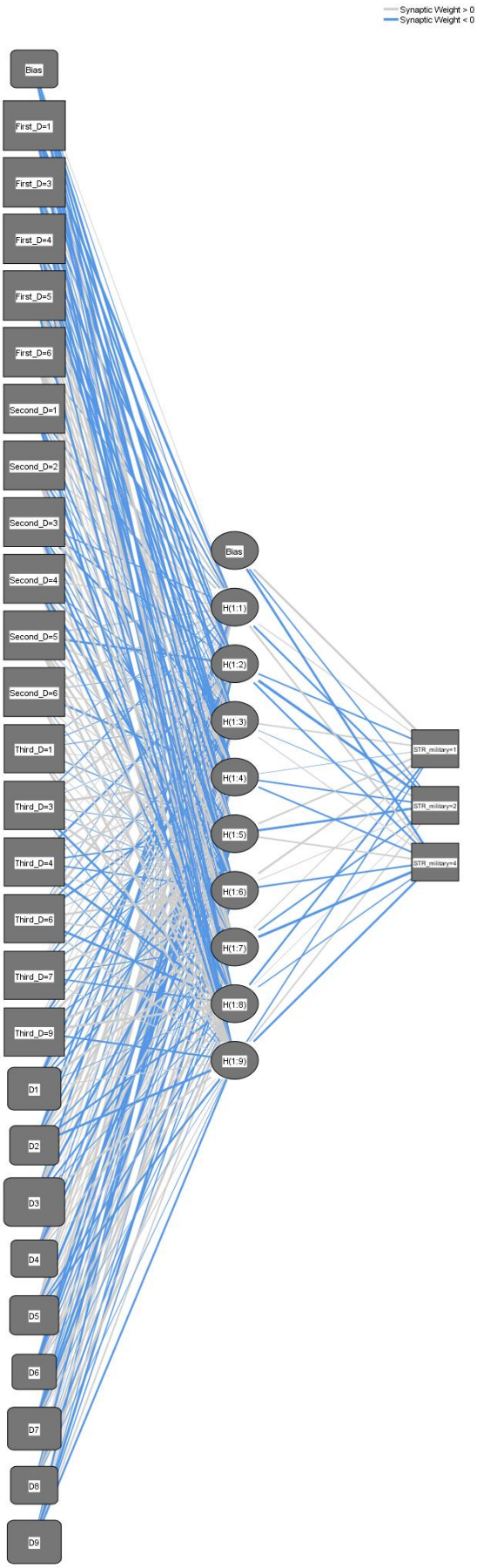
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 11 | 91.7% |
| | Testing | 1 | 8.3% |
| Valid | | 12 | 100.0% |
| Excluded | | 92 | |
| Total | | 104 | |

## 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] | | 26 |
| | Rescaling Method for Covariates | | Standardized |
| Hidden Layer(s) | Number of Hidden Layers | | 1 |
| | Number of Units in Hidden Layer 1[a] | | 9 |
| | Activation Function | | Hyperbolic tangent |
| Output Layer | Dependent Variables | 1 | Militarylike strategy |
| | 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 | 9.245 |
| | Percent Incorrect Predictions | 45.5% |
| | Stopping Rule Used | 1 consecutive step(s) with no decrease in error[a] |
| | Training Time | 0:00:00.02 |
| Testing | Cross Entropy Error | .574 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

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) | H(1:9) | [STR_military=1] | [STR_military=2] | [STR_military=4] |
| Input Layer | (Bias) | .041 | -.098 | -.553 | -.413 | -.285 | -.427 | .286 | -.499 | -.169 | | | |
| | [First_D=1] | -.574 | -.500 | -.400 | -.743 | -.476 | .071 | -.041 | -.126 | -.567 | | | |
| | [First_D=3] | .227 | -.408 | .223 | -.584 | .475 | -.443 | -.036 | -.464 | -.169 | | | |
| | [First_D=4] | -.337 | .295 | -.089 | -.477 | -.431 | -.551 | .622 | .162 | -.314 | | | |
| | [First_D=5] | .369 | -.391 | -.098 | .410 | .206 | .445 | .240 | .298 | -.498 | | | |
| | [First_D=6] | -.172 | .116 | .171 | .227 | .280 | .337 | .362 | .026 | .399 | | | |
| | [Second_D=1] | .391 | -.357 | .231 | -.111 | .006 | -.405 | -.086 | -.151 | -.505 | | | |
| | [Second_D=2] | .226 | -.001 | -.043 | -.357 | .058 | -.331 | .555 | .193 | .716 | | | |
| | [Second_D=3] | -.226 | -.271 | -.531 | .033 | -.354 | -.168 | -.321 | -.512 | .407 | | | |
| | [Second_D=4] | .211 | .004 | -.193 | -.283 | .191 | -.729 | .593 | -.380 | .153 | | | |
| | [Second_D=5] | .426 | -.498 | .222 | .267 | -.013 | .381 | .535 | .302 | .542 | | | |
| | [Second_D=6] | .447 | -.051 | .091 | -.489 | .130 | .110 | -.067 | .192 | .537 | | | |
| | [Third_D=1] | -.089 | -.122 | -.076 | .049 | -.163 | -.069 | .063 | .274 | .549 | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Third_D=3] | -.265 | .459 | -.020 | .564 | -.070 | -.045 | .489 | -.473 | -.108 | | | |
| | [Third_D=4] | .004 | -.443 | .297 | .250 | -.270 | -.257 | .181 | -.516 | -.047 | | | |
| | [Third_D=6] | -.046 | .617 | -.352 | -.462 | .173 | .394 | .330 | -.506 | .328 | | | |
| | [Third_D=7] | .018 | .200 | -.271 | -.211 | -.178 | .341 | -.164 | -.292 | .136 | | | |
| | [Third_D=9] | .118 | .013 | -.459 | -.049 | .576 | -.195 | .735 | .526 | -.361 | | | |
| | D1 | .230 | -.559 | -.163 | .237 | -.281 | -.296 | .553 | -.036 | .167 | | | |
| | D2 | -.346 | -.300 | .255 | -.355 | .514 | .202 | -.195 | -.387 | -.526 | | | |
| | D3 | -.485 | .346 | .444 | .212 | -.537 | .026 | -.340 | -.121 | .374 | | | |
| | D4 | .160 | -.171 | .173 | -.251 | -.453 | .412 | .126 | .299 | .017 | | | |
| | D5 | -.015 | .320 | .233 | .086 | -.588 | .208 | .138 | -.330 | -.407 | | | |
| | D6 | .045 | .543 | -.673 | -.517 | -.283 | -.141 | .232 | .455 | -.012 | | | |
| | D7 | .233 | .152 | -.418 | -.120 | -.560 | -.557 | .516 | -.110 | .113 | | | |
| | D8 | .006 | .242 | -.409 | .120 | -.035 | .372 | -.325 | .591 | -.068 | | | |
| | D9 | .037 | -.411 | .102 | .098 | -.123 | -.564 | -.200 | .246 | -.393 | | | |
| Hidden Layer | (Bias) | | | | | | | | | | .460 | -.244 | -.510 |
| 1 | H(1:1) | | | | | | | | | | .110 | -.383 | .317 |
| | H(1:2) | | | | | | | | | | -.285 | -.784 | -.347 |
| | H(1:3) | | | | | | | | | | .255 | -.041 | .118 |
| | H(1:4) | | | | | | | | | | -.001 | -.286 | -.310 |
| | H(1:5) | | | | | | | | | | .312 | -.498 | .269 |
| | H(1:6) | | | | | | | | | | .401 | .069 | -.316 |
| | H(1:7) | | | | | | | | | | .121 | -.316 | -.668 |
| | H(1:8) | | | | | | | | | | -.395 | .031 | -.185 |
| | H(1:9) | | | | | | | | | | -.246 | .233 | -.432 |

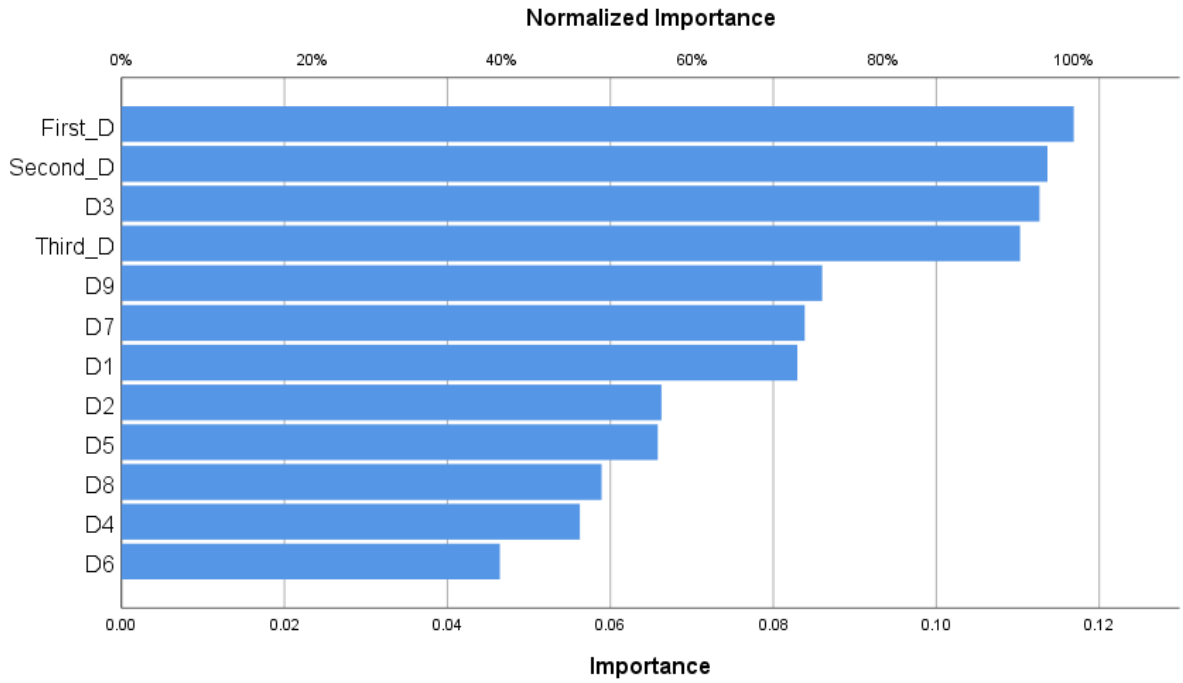
## Classification

| | | Predicted | | | |
|---|---|---|---|---|---|
| Sample | Observed | worst option | mediocre option | best option | Percent Correct |
| Training | worst option | 6 | 1 | 1 | 75.0% |
| | mediocre option | 1 | 0 | 0 | 0.0% |
| | best option | 2 | 0 | 0 | 0.0% |
| | Overall Percent | 81.8% | 9.1% | 9.1% | 54.5% |
| Testing | worst option | 0 | 0 | 0 | 0.0% |
| | mediocre 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: Militarylike strategy

**Independent Variable Importance**

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .117 | 100.0% |
| Second discourse in text | .114 | 97.2% |
| Third discourse in text | .110 | 94.4% |
| CONTACT RESTRICTION | .083 | 71.0% |
| SANITATION AND HYGIENE | .066 | 56.7% |
| ISOLATION OF INFECTED | .113 | 96.4% |
| TOTAL ISOLATION | .056 | 48.1% |
| HEALTH CARE | .066 | 56.3% |
| VIRUS DISSEMINATION | .046 | 39.7% |
| LIFESTYLE CHANGES | .084 | 71.8% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .059 | 50.4% |
| BUREAUCRATIC RESPONSE | .086 | 73.6% |




```
*Multilayer Perceptron Network.
MLP STR_military (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 17:06:37 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military (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<br><br>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.

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

## Case Processing Summary

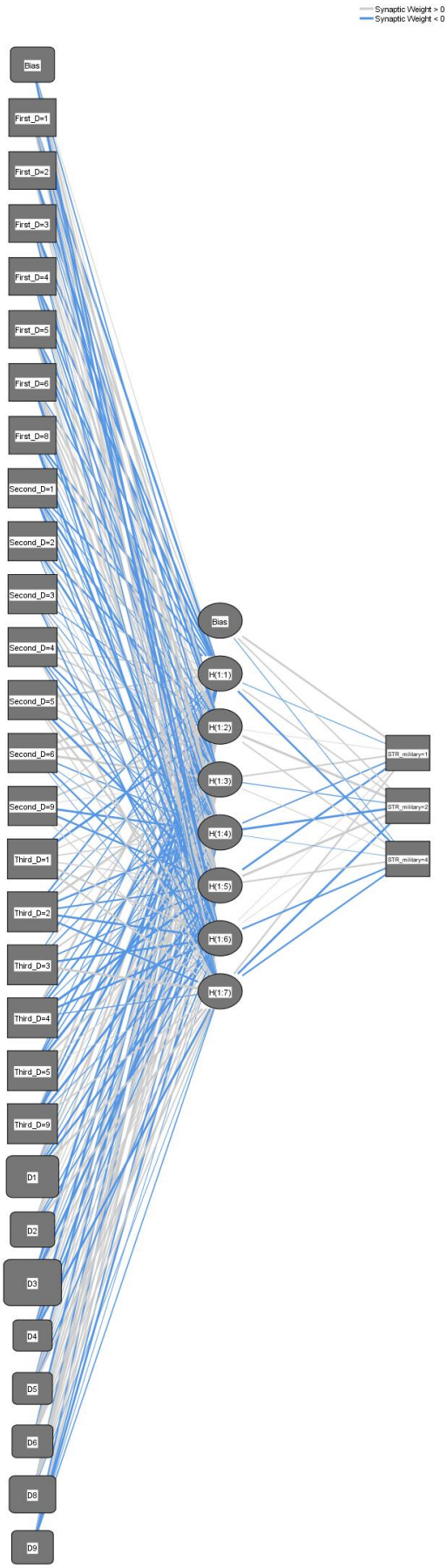
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 10 | 76.9% |
| | Testing | 3 | 23.1% |
| Valid | | 13 | 100.0% |
| Excluded | | 91 | |
| Total | | 104 | |

## 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 DISSEMINATION |
| | | 7 | RIGHTS AND FREEDOMS INFRINGEMENT |

| | | | |
|---|---|---|---|
| | | 8 | 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 | Militarylike strategy |
| | 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 | 8.780 |
| | Percent Incorrect Predictions | 30.0% |
| | Stopping Rule Used | 1 consecutive step(s) with no decrease in error[a] |
| | Training Time | 0:00:00.02 |
| Testing | Cross Entropy Error | 1.518 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

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_military =1] | [STR_military =2] | [STR_military =4] |
| Input Layer | (Bias) | .055 | -.219 | .061 | .468 | .042 | -.382 | -.279 | | | |
| | [First_D=1] | -.529 | .596 | -.248 | .557 | -.083 | -1.089 | .263 | | | |
| | [First_D=2] | .211 | -.520 | -.135 | -.174 | .157 | .143 | .071 | | | |
| | [First_D=3] | -.447 | -.217 | .076 | .566 | .075 | -.078 | -.201 | | | |
| | [First_D=4] | -.605 | .038 | -.329 | -.224 | .278 | .189 | -.167 | | | |
| | [First_D=5] | -.354 | .386 | -.339 | -.442 | .008 | .651 | .042 | | | |
| | [First_D=6] | -.215 | .374 | .235 | .365 | .359 | -.571 | -.209 | | | |
| | [First_D=8] | -.395 | -.321 | .111 | -.069 | -.021 | -.777 | -.070 | | | |
| | [Second_D=1] | -.365 | -.153 | -.580 | -.144 | .439 | -.351 | -.218 | | | |
| | [Second_D=2] | .240 | -.401 | .271 | -.511 | -.006 | .067 | -.142 | | | |
| | [Second_D=3] | .118 | -.177 | -.020 | -.132 | .272 | -.051 | -.259 | | | |
| | [Second_D=4] | .325 | .255 | .730 | -.372 | -.193 | -.306 | .436 | | | |
| | [Second_D=5] | .378 | .041 | .228 | -.152 | -.645 | .474 | .176 | | | |
| | [Second_D=6] | .778 | .769 | .662 | -.217 | -.074 | -.362 | -.050 | | | |
| | [Second_D=9] | .136 | .375 | .036 | -.471 | -.396 | .143 | .159 | | | |
| | [Third_D=1] | -.283 | -.675 | .166 | .193 | .194 | .448 | .435 | | | |
| | [Third_D=2] | -.347 | -.142 | .737 | -.435 | -.332 | -.475 | -.401 | | | |
| | [Third_D=3] | -.176 | .100 | -.219 | .327 | -.252 | -.454 | .800 | | | |
| | [Third_D=4] | .648 | -.184 | -.379 | -.092 | -.801 | -.527 | -.149 | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | [Third_D=5] | -.138 | -.408 | -.172 | -.789 | .534 | .144 | .070 | | | |
| | [Third_D=9] | .387 | -.297 | -.676 | .017 | -.694 | -.124 | .252 | | | |
| | D1 | .308 | -.075 | .460 | -.088 | -.369 | -.495 | .594 | | | |
| | D2 | .411 | .123 | .136 | .118 | -.197 | -.241 | .607 | | | |
| | D3 | -.805 | -.027 | .323 | -.126 | -.824 | .273 | .100 | | | |
| | D4 | -.641 | .158 | .259 | -.373 | -.246 | .123 | -.617 | | | |
| | D5 | -.501 | .337 | .213 | -.001 | .208 | -.242 | .456 | | | |
| | D6 | -.514 | .088 | .295 | .352 | .160 | .258 | .223 | | | |
| | D8 | -.366 | .823 | .579 | .206 | .269 | .236 | -.073 | | | |
| | D9 | -.333 | .087 | .320 | -.287 | -.548 | -.073 | -.194 | | | |
| Hidden Layer 1 | (Bias) | | | | | | | | .431 | .240 | -.085 |
| | H(1:1) | | | | | | | | -.087 | .235 | -.420 |
| | H(1:2) | | | | | | | | .010 | .763 | .234 |
| | H(1:3) | | | | | | | | .316 | -.129 | .081 |
| | H(1:4) | | | | | | | | -.241 | -.572 | -.015 |
| | H(1:5) | | | | | | | | -.444 | .649 | .325 |
| | H(1:6) | | | | | | | | .030 | .024 | -.335 |
| | H(1:7) | | | | | | | | .341 | -.503 | -.337 |

## Classification

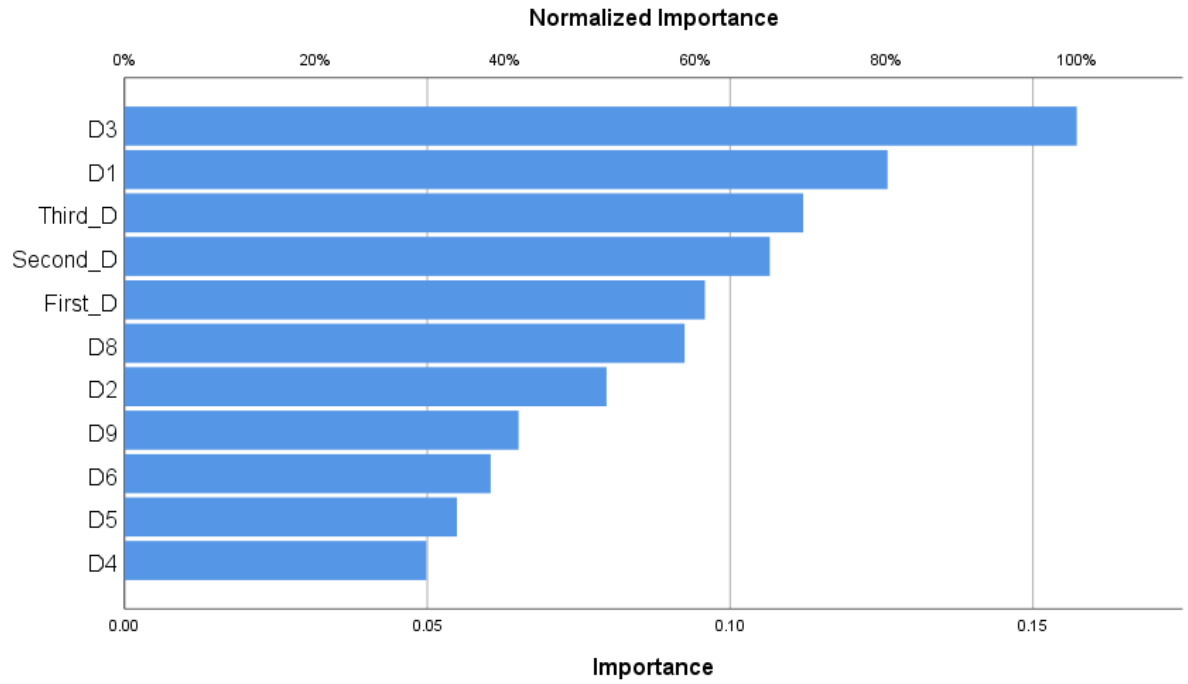
| Sample | Observed | Predicted | | | |
|---|---|---|---|---|---|
| | | worst option | mediocre option | best option | Percent Correct |
| Training | worst option | 3 | 1 | 0 | 75.0% |
| | mediocre option | 1 | 3 | 0 | 75.0% |
| | best option | 0 | 1 | 1 | 50.0% |
| | Overall Percent | 40.0% | 50.0% | 10.0% | 70.0% |
| Testing | worst option | 3 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 0 | 0 | 0.0% |
| | best option | 0 | 0 | 0 | 0.0% |
| | Overall Percent | 100.0% | 0.0% | 0.0% | 100.0% |

Dependent Variable: Militarylike strategy

## Independent Variable Importance

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .096 | 60.9% |
| Second discourse in text | .107 | 67.8% |
| Third discourse in text | .112 | 71.3% |

| | | |
|---|---|---|
| CONTACT RESTRICTION | .126 | 80.1% |
| SANITATION AND HYGIENE | .080 | 50.6% |
| ISOLATION OF INFECTED | .157 | 100.0% |
| TOTAL ISOLATION | .050 | 31.7% |
| HEALTH CARE | .055 | 34.9% |
| VIRUS DISSEMINATION | .060 | 38.5% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .092 | 58.8% |
| BUREAUCRATIC RESPONSE | .065 | 41.4% |




```
*Multilayer Perceptron Network.
MLP STR_military (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 17:06:44 |
| Comments | | |
| Input | Data | C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav |
| | Active Dataset | DataSet1 |
| | 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_military<br>(MLEVEL=O) BY First_D<br>Second_D Third_D WITH D1<br>D2 D3 D4 D5 D6 D7 D8 D9<br>/RESCALE<br>COVARIATE=STANDARDIZ<br>ED<br>/PARTITION<br>TRAINING=7 TESTING=3<br>HOLDOUT=0<br>/ARCHITECTURE<br>AUTOMATIC=YES<br>(MINUNITS=1<br>MAXUNITS=50)<br>/CRITERIA<br>TRAINING=BATCH<br>OPTIMIZATION=SCALEDC<br>ONJUGATE<br>LAMBDAINITIAL=0.0000005<br>SIGMAINITIAL=0.00005<br>INTERVALCENTER=0<br>INTERVALOFFSET=0.5<br>MEMSIZE=1000<br>/PRINT CPS<br>NETWORKINFO SUMMARY<br>CLASSIFICATION<br>SOLUTION IMPORTANCE<br>/PLOT NETWORK<br>/STOPPINGRULES<br>ERRORSTEPS= 1<br>(DATA=AUTO)<br>TRAININGTIMER=ON<br>(MAXTIME=15)<br>MAXEPOCHS=AUTO<br><br>ERRORCHANGE=1.0E-4<br>ERRORRATIO=0.001<br>/MISSING<br>USERMISSING=EXCLUDE . |
| Resources | Processor Time | 00:00:00.42 |
| | 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

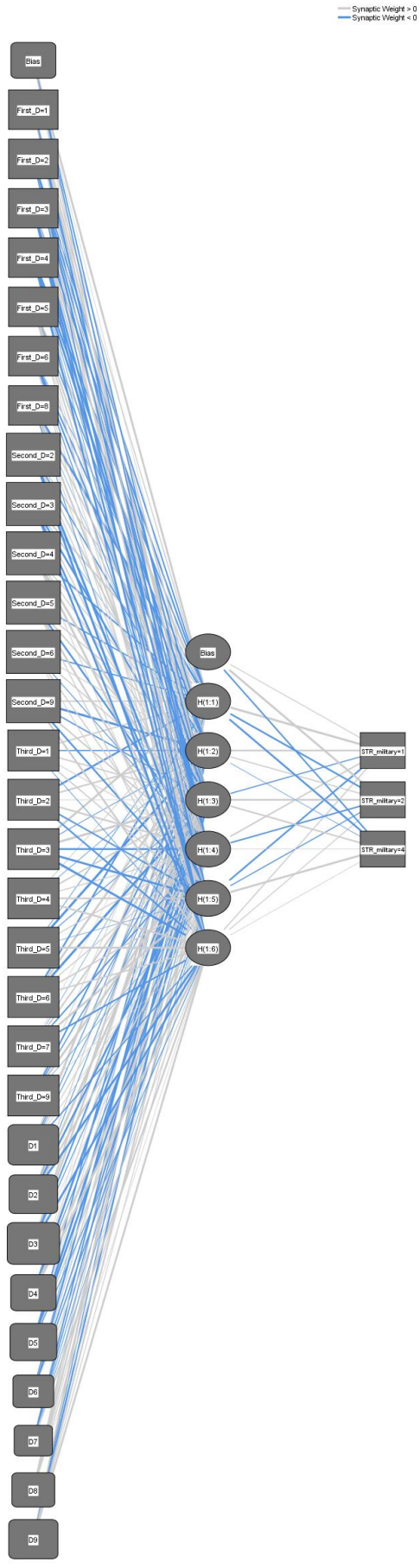
| | | N | Percent |
|---|---|---|---|
| Sample | Training | 13 | 92.9% |
| | Testing | 1 | 7.1% |
| Valid | | 14 | 100.0% |
| Excluded | | 90 | |
| Total | | 104 | |

## 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] | | 30 |
| | 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 | Militarylike strategy |
| | 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 | 11.252 |
| | Percent Incorrect Predictions | 30.8% |
| | Stopping Rule Used | 1 consecutive step(s) with no decrease in error[a] |
| | Training Time | 0:00:00.02 |
| Testing | Cross Entropy Error | .248 |
| | Percent Incorrect Predictions | 0.0% |

Dependent Variable: Militarylike strategy

a. Error computations are based on the testing sample.

## Parameter Estimates

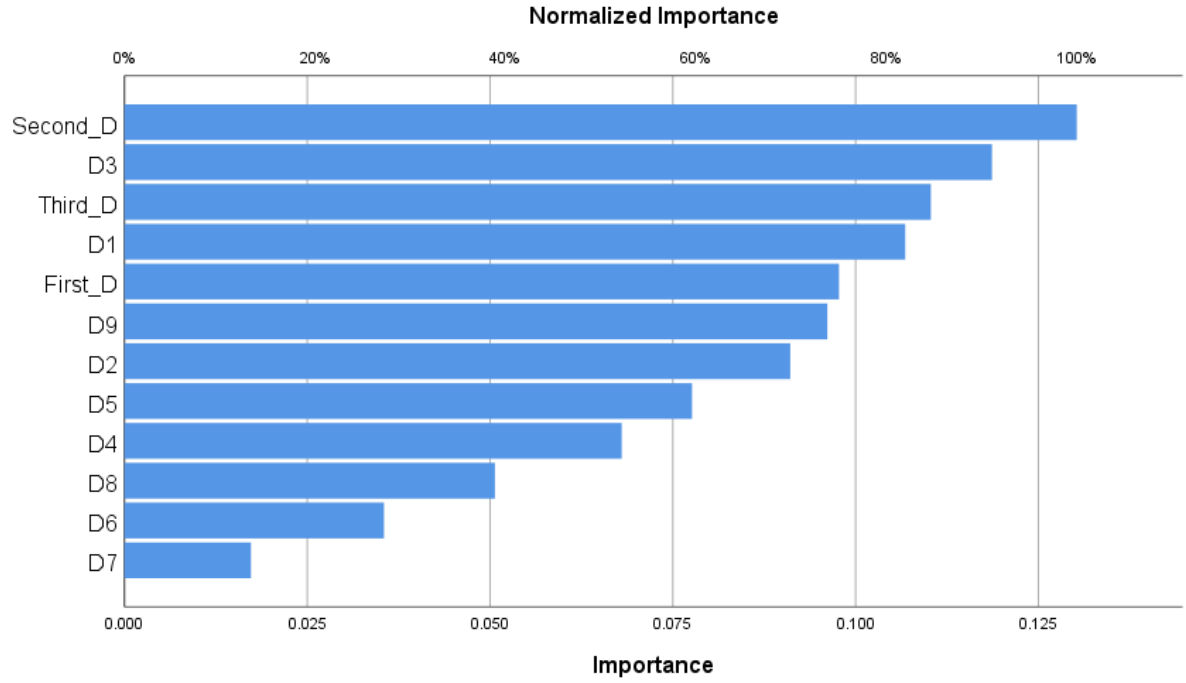
| | | Predicted | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Hidden Layer 1 | | | | | | Output Layer | | |
| Predictor | | H(1:1) | H(1:2) | H(1:3) | H(1:4) | H(1:5) | H(1:6) | [STR_military=1] | [STR_military=2] | [STR_military=4] |
| Input Layer | (Bias) | .671 | .023 | -.278 | -.273 | .203 | .033 | | | |
| | [First_D=1] | .167 | .363 | .917 | -.621 | -.054 | .134 | | | |
| | [First_D=2] | -.315 | -.409 | -.377 | -.601 | .279 | -.246 | | | |
| | [First_D=3] | -.392 | .975 | .410 | -.575 | -.651 | -.510 | | | |
| | [First_D=4] | -.304 | -.492 | -.722 | -.074 | -.063 | -.544 | | | |
| | [First_D=5] | .600 | -.245 | .419 | .353 | .054 | .263 | | | |
| | [First_D=6] | -.068 | -.353 | -.382 | -.142 | .070 | .128 | | | |
| | [First_D=8] | -.791 | .325 | -.003 | .540 | .109 | -.094 | | | |
| | [Second_D=2] | .231 | -.290 | .336 | .155 | -1.185 | -.909 | | | |
| | [Second_D=3] | .397 | -.001 | -.572 | .235 | -.571 | -.582 | | | |
| | [Second_D=4] | -.366 | .150 | .204 | .936 | .750 | .086 | | | |
| | [Second_D=5] | -.283 | .219 | .332 | -.528 | .529 | .187 | | | |
| | [Second_D=6] | -.278 | .085 | .233 | -.119 | .231 | .077 | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [Second_D=9] | .305 | -.809 | -.273 | .374 | -.477 | .533 | | | |
| | [Third_D=1] | .294 | -.235 | .294 | .087 | .238 | -.073 | | | |
| | [Third_D=2] | -.527 | .387 | .047 | .459 | -.374 | -.451 | | | |
| | [Third_D=3] | .730 | -.085 | .841 | -.486 | -.693 | -.817 | | | |
| | [Third_D=4] | .078 | -.062 | .364 | .177 | .469 | .485 | | | |
| | [Third_D=5] | -.074 | -1.018 | -.119 | .190 | -.024 | .657 | | | |
| | [Third_D=6] | -.428 | .639 | -1.121 | .199 | .296 | .301 | | | |
| | [Third_D=7] | .019 | -.023 | .379 | -.329 | .674 | -.398 | | | |
| | [Third_D=9] | .065 | -.379 | -.204 | .799 | -.040 | .035 | | | |
| | D1 | .779 | -.132 | -.089 | .106 | .065 | -.249 | | | |
| | D2 | .133 | -.105 | .878 | -.595 | .401 | -.735 | | | |
| | D3 | .552 | .627 | -.375 | -.129 | .010 | -.634 | | | |
| | D4 | .032 | .093 | -.673 | -.165 | .747 | .958 | | | |
| | D5 | -.322 | .064 | -.809 | -.614 | .263 | -.111 | | | |
| | D6 | -.046 | -.520 | .182 | -.272 | -.223 | .075 | | | |
| | D7 | .026 | -.347 | -.221 | -.077 | -.053 | .472 | | | |
| | D8 | .389 | .198 | .469 | .105 | .203 | .011 | | | |
| | D9 | .621 | -.153 | -.437 | .431 | .089 | .580 | | | |
| Hidden Layer 1 | (Bias) | | | | | | | .132 | .736 | -.369 |
| | H(1:1) | | | | | | | .869 | -.465 | -.532 |
| | H(1:2) | | | | | | | .481 | .213 | -.041 |
| | H(1:3) | | | | | | | -.209 | .519 | .376 |
| | H(1:4) | | | | | | | .347 | -.353 | .039 |
| | H(1:5) | | | | | | | -.428 | -.199 | .663 |
| | H(1:6) | | | | | | | .213 | .143 | .048 |

## Classification

| | | Predicted | | | |
|---|---|---|---|---|---|
| Sample | Observed | worst option | mediocre option | best option | Percent Correct |
| Training | worst option | 5 | 2 | 0 | 71.4% |
| | mediocre option | 1 | 3 | 0 | 75.0% |
| | best option | 0 | 1 | 1 | 50.0% |
| | Overall Percent | 46.2% | 46.2% | 7.7% | 69.2% |
| Testing | worst option | 1 | 0 | 0 | 100.0% |
| | mediocre option | 0 | 0 | 0 | 0.0% |
| | best option | 0 | 0 | 0 | 0.0% |
| | Overall Percent | 100.0% | 0.0% | 0.0% | 100.0% |

Dependent Variable: Militarylike strategy

**Independent Variable Importance**

| | Importance | Normalized Importance |
|---|---|---|
| First discourse in text | .098 | 75.0% |
| Second discourse in text | .130 | 100.0% |
| Third discourse in text | .110 | 84.7% |
| CONTACT RESTRICTION | .107 | 82.0% |
| SANITATION AND HYGIENE | .091 | 69.9% |
| ISOLATION OF INFECTED | .119 | 91.1% |
| TOTAL ISOLATION | .068 | 52.2% |
| HEALTH CARE | .078 | 59.6% |
| VIRUS DISSEMINATION | .035 | 27.3% |
| LIFESTYLE CHANGES | .017 | 13.3% |
| RIGHTS AND FREEDOMS INFRINGEMENT | .051 | 38.9% |
| BUREAUCRATIC RESPONSE | .096 | 73.8% |