

Discriminant

[DataSet2] C:\Documents and Settings\jelhai\My Documents\My Docs #1\Business\Teaching_USD_Multivariate Stats\Computer Examples \Ch9 DFA Ex\Ch9 DFA Ex Data.sav

Analysis Case Processing Summary

Unweighted Cases	N	Percent
Valid	144	100.0
Excluded		
Missing or out-of-range group codes	0	.0
At least one missing discriminating variable	0	.0
Both missing or out-of-range group codes and at least one missing discriminating variable	0	.0
Total	144	100.0

Group Statistics

group	Valid N (listwise)	
	Unweig hted	Weighted
psid csa victims	f 64	64.000
	fp 64	64.000
	fminusk 64	64.000
psid mallingerers	f 80	80.000
	fp 80	80.000
	fminusk 80	80.000
Total	f 144	144.000
	fp 144	144.000
	fminusk 144	144.000

Analysis 1

Summary of Canonical Discriminant Functions

Eigenvalues

Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	.537 ^a	100.0	100.0	.591

a. First 1 canonical discriminant functions were used in the analysis.

Wilks' Lambda

Test of Function(s)	Wilks' Lambda	Chi-square	df	Sig.
1	.651 ^a	60.363	3	.000

Standardized Canonical Discriminant Function Coefficients

	Funcio n	
	f	fp
psid csa victims	-.025	.611
psid mallingerers	.457	

Structure Matrix

	Funcio n	
	f	fp
psid csa victims	.967	.937
psid mallingerers	.753	

Pooled within-groups correlations between discriminating variables and standardized canonical discriminant functions

Variables ordered by absolute size of correlation within function.

Functions at Group Centroids

group	Funcio n	
	f	fp
psid csa victims	-8.13	
psid mallingerers	.651	

Unstandardized canonical discriminant functions evaluated at group means

Classification Statistics

Classification Processing Summary

Processed	144
Excluded	0
Missing or out-of-range group codes	0
At least one missing discriminating variable	0
Used in Output	144

Prior Probabilities for Groups

group	Prior	Cases Used in Analysis	
		Unweig hted	Weighted
ptsd csa victims	.500	64	64.000
ptsd malingers	.500	80	80.000
Total	1.000	144	144.000

Classification Results^{a,e}

Original	group	Predicted Group Membership			Total
		ptsd csa victims	ptsd malingers	ptsd malingers	
Original	Count	55	9	64	
	%	22	58	80	
Cross-validated ^a	Count	85.9	14.1	100.0	
	%	27.5	72.5	100.0	
Cross-validated ^a	Count	55	9	64	
	%	22	58	80	
Cross-validated ^a	Count	85.9	14.1	100.0	
	%	27.5	72.5	100.0	

- Cross validation is done only for those cases in the analysis. In cross validation, each case is classified by the functions derived from all cases other than that case.
- 78.5% of original grouped cases correctly classified.
- 78.5% of cross-validated grouped cases correctly classified.

General Linear Model

[DataSet2] C:\Documents and Settings\jelhai\My Documents\My Docs #1\Business\Teaching_USD_Multivariate Stats\Computer Examples

\Ch9 DEA_Ex\Ch9 DEA_Ex Data.sav

Between-Subjects Factors

group	Value Label	N
.00	ptsd csa victims	64
1.00	ptsd malingers	80

Multivariate Test^p

Effect	Value	F	Hypothesis df	Error df
Intercept	.982	2563.6 ^a	3.000	140.000
Pillai's Trace	.018	2563.6 ^a	3.000	140.000
Wilks' Lambda	54.934	2563.6 ^a	3.000	140.000
Hotelling's Trace	54.934	2563.6 ^a	3.000	140.000
Roy's Largest Root	.349	25.045 ^a	3.000	140.000
Pillai's Trace	.651	25.045 ^a	3.000	140.000
Wilks' Lambda	.537	25.045 ^a	3.000	140.000
Hotelling's Trace	.537	25.045 ^a	3.000	140.000
Roy's Largest Root	.537	25.045 ^a	3.000	140.000

Multivariate Tests^b

Effect	Sig.	Partial Eta Squared
Intercept	.000	.982
Pillai's Trace	.000	.982
Wilks' Lambda	.000	.982
Hotelling's Trace	.000	.982
Roy's Largest Root	.000	.982
group		
Pillai's Trace	.000	.349
Wilks' Lambda	.000	.349
Hotelling's Trace	.000	.349
Roy's Largest Root	.000	.349

- a. Exact statistic
- b. Design : Intercept+group

Tests of Between-Subjects Effects

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F
Corrected Model	f	16709.0 ^a	1	16709.0	43.255
	fp	40193.8 ^b	1	40193.8	71.221
	fminusk	11992.8 ^c	1	11992.8	66.895
Intercept	f	1443949	1	1E+006	3737.9
	fp	924035	1	924035	1637.3
	fminusk	31913.4	1	31913.4	178.012
group	f	16709.0	1	16709.0	43.255
	fp	40193.8	1	40193.8	71.221
	fminusk	11992.8	1	11992.8	66.895
Error	f	54853.8	142	386.294	
	fp	80138.6	142	564.357	
	fminusk	25457.2	142	179.276	
Total	f	1568719	144		
	fp	1099782	144		
	fminusk	74314.0	144		
Corrected Total	f	71562.8	143		
	fp	120332	143		
	fminusk	37450.0	143		

Tests of Between-Subjects Effects

Source	Dependent Variable	Sig.	Partial Eta Squared
Corrected Model	f	.000	.233
	fp	.000	.334
	fminusk	.000	.320
Intercept	f	.000	.963
	fp	.000	.920
	fminusk	.000	.556
group	f	.000	.233
	fp	.000	.334
	fminusk	.000	.320
Error	f		
	fp		
	fminusk		
Total	f		
	fp		
	fminusk		
Corrected Total	f		
	fp		
	fminusk		

- a. R Squared = .233 (Adjusted R Squared = .228)
- b. R Squared = .334 (Adjusted R Squared = .329)
- c. R Squared = .320 (Adjusted R Squared = .315)

Logistic Regression

[DataSet2] C:\Documents and Settings\jelhai\My Documents\My Docs #1\Business\Teaching_USD_Multivariate Stats\Computer Examples \Ch9 DFA Ex\Ch9 DFA Ex Data.sav

Case Processing Summary

Unweighted Cases ^a	N	Percent
Selected Cases Included in Analysis	144	100.0
Missing Cases	0	.0
Total	144	100.0
Unselected Cases	0	.0
Total	144	100.0

a. If weight is in effect, see classification table for the total number of cases.

Dependent Variable Encoding

Original Value	Internal Value
ptsd csa victims	0
ptsd malingers	1

Block 0: Beginning Block

Classification Table^{a,b}

Observed	group	Predicted			Percentage Correct
		group			
		ptsd csa victims	ptsd malingers	ptsd csa victims	
Step 0	group	ptsd csa victims	0	64	.0
Overall Percentage		ptsd csa victims	0	80	100.0
		ptsd malingers			55.6

- a. Constant is included in the model.
- b. The cut value is .500

Variables in the Equation

	B	S.E.	Wald	df	Sig.	Exp(B)
Step 0	Constant	.223	.168	1	.183	1.250

Variables not in the Equation

Step	Variables	f	Score	df	Sig.
0	fp	fmInusk	33.622	1	.000
			48.099	1	.000
			46.114	1	.000
Overall Statistics			50.292	3	.000

Block 1: Method = Enter

Omnibus Tests of Model Coefficients

Step	Chi-Square	df	Sig.
Step 1	58.938	3	.000
Block	58.938	3	.000
Model	58.938	3	.000

Model Summary

Step	-2 Log Likelihood	Cox & Snell R Square	Nagelkerke R Square
1	138.907 ^a	.336	.450

- a. Estimation terminated at iteration number 6 because parameter estimates changed by less than .001.

Classification Table^a

Observed	group	Predicted			Percentage Correct
		group			
		ptsd csa victims	ptsd malingers	ptsd csa victims	
Step 1	group	ptsd csa victims	53	11	82.8
Overall Percentage		ptsd csa victims	21	59	73.8
		ptsd malingers			77.8

- a. The cut value is .500

Variables in the Equation

Step	B	S.E.	Wald	df	Sig.	Exp(B)
Step 1	f	.018	.954	1	.329	.982
	fp	.027	.014	1	.061	1.027
	fmInusk	.084	.040	1	.036	1.087
Constant			-1.220	1	.460	.295

- a. Variable(s) entered on step 1: f, fp, fmInusk.