

Big Data & Analytics Data Science

IBM SPSS Modeler *Association A priori*

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Stream: basklinks_Association.str

- A priori node execution
- Consequent: « frozenmeal »
- Antecedent: « cannedveg, beer »

Consequent	Antecedent	Rule ID	Instances	Support %	Confidence...	Rule Supp...	Lift	Deployability
frozenmeal	beer cannedveg	10	167	16.7	87.425	14.6	2.895	2.1
beer	frozenmeal cannedveg	11	173	17.3	84.393	14.6	2.88	2.7
cannedveg	beer frozenmeal	9	170	17.0	85.882	14.6	2.834	2.4
beer	frozenmeal	4	302	30.2	56.291	17.0	1.921	13.2
frozenmeal	beer	3	293	29.3	58.02	17.0	1.921	12.3
frozenmeal	cannedveg	8	303	30.3	57.096	17.3	1.891	13.0
cannedveg	frozenmeal	7	302	30.2	57.285	17.3	1.891	12.9
cannedveg	beer	5	293	29.3	56.997	16.7	1.881	12.6
beer	cannedveg	6	303	30.3	55.116	16.7	1.881	13.6
confectionery	wine	2	287	28.7	50.174	14.4	1.818	14.3
wine	confectionery	1	276	27.6	52.174	14.4	1.818	13.2

Results

- Rule ID
- Instances : Nb of lines where antecedents are true (167 lines where cannedveg = 1 and beer = 1)
- Support %: Nb of lines where antecedents are true / Nb total of lines ($167 / 1000 = 16,7\%$)
- Confidence %: Nb of lines where antecedents and consequent are true / Nb of lines where antecedents are true ($146 / 167 = 87,425\%$)

Results

- Rule Support %: Nb of lines where antecedents and consequent are true / Nb total of lines ($146 / 1000 = 14,6\%$)
- Lift: Confidence % / (Nb of lines where consequent are true/ Nb de lignes total) ($87,425\% / (302/1000) = 2,895$)
- Deployability: (Nb of lines where antecedents are true - Nb of lines where antecedents and consequent are true) / Nb total of lines ($((167-146) / 1000) * 100 = 2,1$)

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Thank You

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