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DETAILED LECTURE NOTES

Market Basket Analysis

Ferequent Patterns — Merusels & milk. Bread }
— Sequential & Computer, putivious }

Market Basket Analysis is a Pala - Willing feelingere Or machine learning technique used by Refailers to Patterns. It involves analyzing large Palasets, such as Purchase twickory, to neveal Peroduct gasupings and Parodust that are likely to be purchased together.

How deer Market Basket Dualysis work ? lt is modelled on Association Rule Mining, i've et a customer kuye keread, then he is likely to lung lutter his well.

-> & Buffer } These are Referented as & Bread 3

antrudent

consignant

I Anteredent: Heurs en Memsels, found within. dala are Anteciolants. In lympler worsh of its tru 1º component, weitten of on the left - han Isole. In the Allove exemple, beleast is the Outerestant.

Journal of loudination with the Antecestant of the the THEN lomponent, weitten om the Right - Mand lidle. In the Alvove example, Butter is the lensequent.

-) Association Rule Mining is all about beildning tue Kules.

A -) B - Single lærshmality

A, B -> C } canolinality includes
A, B, (-> P)

10t of countinations abound
these data

Measurer Association Confidence lift



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SCP-)4) = 2 (PUQ)

lonfielence: Lefines faequent ouvernce of steins of of in bransactions of P-c (P->Q) = P(B/A)

Finding Flegnent Hem sels

Aprilia Algori Hun L'analidale generalian

F P- geræreter plyorifem, |- F-P tale

Lugipport

Aprilie Algoerten / Flieg neut Pattern mining. it refers be the Algorithm which is used to Calculate tere Association enver life object. reliated to each other Jeffen omi plgo, is om association Rule lealinging that Analyzes that Reofle who bought Paschuck also brought personnel B. Verimany objective: -) ereale tre Association Rule blu different Objects. -) It describes how & or more Objects are recealed to one Another. flem sets of teams architems A,B,L A, C A,D BoFOF TO X4 Caro, of brans auch ons)=2 min longielenne 250%.



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		B	2	sufealing using
				minimum suffect
C2		ans of ?	Support	
		A, B3 A, C3		it supports
		A, C3	2	Count
				Page No.:

AAL ST AND > C. Luftport Olema 12 = 2 louf cleve & A, C'S A > C = I lem sets contain Support 2 illem les occurance of A coul ani will 3 Wen sels. Coulein will Confichence of. Conficience Support Association Rule 66% 2/3=0.66 2 JA -> C 1009. 2/2=1 2 re-) A = 50% Min Confichence liona Challye. to % se upar Tinal Rule All rand orgen. 2) valendate lærge stemsets 2) 19mple to understand af afifily 1) (x pensive method to final support vince the 2) La plusive dietas de passe du colole clabaliase calculation bras to passe du constidale Rules, so it lucomes comput atienally more glucomes comput atienally expens



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FP-Grawth Algoritem. / Frequent Pattern Grawth The 2 Perimany Denaw Cracks of the Aperioris Algo are:) landidate set have to be luilt. 2) To build the landidate sets , the Algorillum has to explateally scan the dalabase. Tick + , a, e, d, , g, m, p a,b, c, f, , e, m, o b, 1, h, 0 a, j, c, l, p, m, min support :3 [a,b,c,d,fog,k,l,m,h,o,p]

Suffort ltem a m M 0 P

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1	U				
C	4	,			
a	3				
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[], C, a, b, m, b) - Palteen & this paleone

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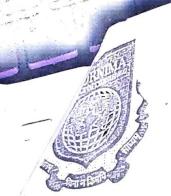
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