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ENGINEERING COLLEGE
12.1

-: Assignments: - (02)

Of write shot roles on

- a) pultiferel Association unds and multidimensional association unles b) web Usage Mining.
- = a) i) Multiferd Association Rule:

Depri A is a type of DM + echnique that
the expense of DM + echnique that
before the expense of multiple lines of
aboptraction within the deck.

Hierarchy: For multievel associatation trule ming data is organized in a hierarchical strehm This hierary can be bessed on attain, cate or any own form of hierarchy pused in the data.

Ex; - Consider a seekent data let. Mutter It association will can be applied to find carrictory, on and palkers had any at the lived of iradin; dual products but also at hoper lives, then as product cody, deposit or en acres the entire store.

Use Cons: Multilevel asportation sulles are use peseful in marious domains dike sulled, where you want to weaver assocration.

eulana and patterns across different level cox This product hierary to make informacy am decision about product placement.
planomon and invertory management A Multidimensional Association Rules: Defn. Mutidimetrical otro clatian drult four an analyzing data with mulpto.

diprosar or attributes. These such are offern associated wife das cubes where each dimension replisents a diff. Data Cubes: In Mutidimissional agricultar unde vivia data is fypically argained in a muhalinestand cube, allowing for the areliens of julotohy between now as la: Consider analys sus data nyth metyper dinner like product time, 100., by lushoma segment mutur dens roll associatebren sules ean usered Enterong insight about now fluse flimesions out correlated. use cases: As find applications in auns
such as busness ionlegence,
when verguization meant to gain a deeper understading of their data by exploring.



enlaraship ber dif. altoi. and dimensions.
This help in decision making, trend mayris and resources allocation.

In Sumary both pulliberel & multidensional associations but mining technous are hallaste in export g meningful patters and focus an different aspets of data hierary and dimensionalty,

Web usage mining

p.l. web Usage Mining is a subset of dala mining that invalues the discovery and analysis of valuable patters and knowledge from web dates, particularly the intractions and behavious of users on websites.

Types:

Dickstrem manyss: Examins user clicks,

novigosom puts and

intractions with web pages.

- Pageniew Analysis: Should which neb pans

Services And accessed by users.

Services Analysis: straties which web peges are most tour

accised by users.



- Applications: -> Persondigation: Web Mage Mining personitied user experiences by Offering failored context product leaconingens or advertsents based on a cress pass behaviour. layout by ideliformy which pages any popular which are frequents with sites and how users havigate the sites. -> Maketig Ophnzasien; Marketens use wals
usage data for facent specific user segments night declevant advertising and promotional comparigns. Challnges: -> Brivary Conemis: The collection of user dala raises princey issues and organization most advou to magazorans like 6 DPK to proted user information. Data Valume: websites generall massive amouts of data heaving efficient data Morage hebieved and processing

