U-6 (BI).

Date / /

Data Fralytics examining of interpredicting large vol. of data to uniover valuable insights patterns, trends to make uniform business desisters. - It involves applying statistical mathematical technique - also involves uses of advanced tools of technique to analyze data & estrate meaningful presents Types of DA extensions diff in the fill of the Descriptive - focuses on summonizing & understanding his torial both. - involves busic statistical analysis - duta aggregation. - violalization 2) Diagonistic - arms to understand reason behind an exact or regult - an abysis historic data using advanced task whech hang.
observation determines factors behind cortain outcome. 3) Predictive - uses historic dula to make predictions of forecast futile event - Involves applying statistical medeby, ML, Deta Mining-4] perspective - goes beyond prediction & also provides recommedation - or actions to apply of decision making. - continue historic data, predictionodele & aptimization algo. two of suggest future course of actions: Importance -Informed Pecision - based on factual info rather than involven organ 2) Improved Efficient & Performance - help Identify collabor interior wor acts remove business bottlenects, should 3 Customer Understands 4) competitive Advantage-

my my of sampler

determent best course of

examples - traffic applications, Product

Restateh

aptimization & Operational

achon

-> gathering, erganizing tabulating of
depicting data.

-> relation b/w product/service.

-> model -> organize a customer by
their personal preferences.

-> examples -> reports that previole

historical insights

-> data visulization communication.

-> the resion communication.

Descriptive

Just for BZ -

) reporting of Quering - allows user for create & soun reports of queries to entract of v from db eg -> Power BI, Jablean.

a) Data Visulization Josls - foot on ording attractive & intuative dahboards.

milestral trackers be

eg -> Jablean, PowerBI.

3) OLAP Joels - enable to disover trends data provide dull up.

stre & dice capabilités eg -> oracle olam, Minosoft cognisent.

4) Data Mining Jools - used to discover trends patterns, blationship from læge dataset vsing clustering, eg ->.

5) Duta Warehouse Jools- designed to crede & manage data warehouse eg > practe database, snowflake, Missorff &g Lsenor-

6) Predicting Analysis Jeals - apply statistical model with algo

eg - Rapid, Minus, SAS Analysis

7) Keel Jime Analysis tool - eg -> Apache Kofke

· PowerBI - Microsoft, comeds values. luk source, crute visualization, ell, wour frondly wit, Array Solup fectionality, NLP quies & As proves QnA teatures, allows collaboration, strong.

· dacte DB - RDBMS phyolim by out scene, sullable, high performance melanging, query phenormations parallel froughly , admin neurs monitory, recurring & body

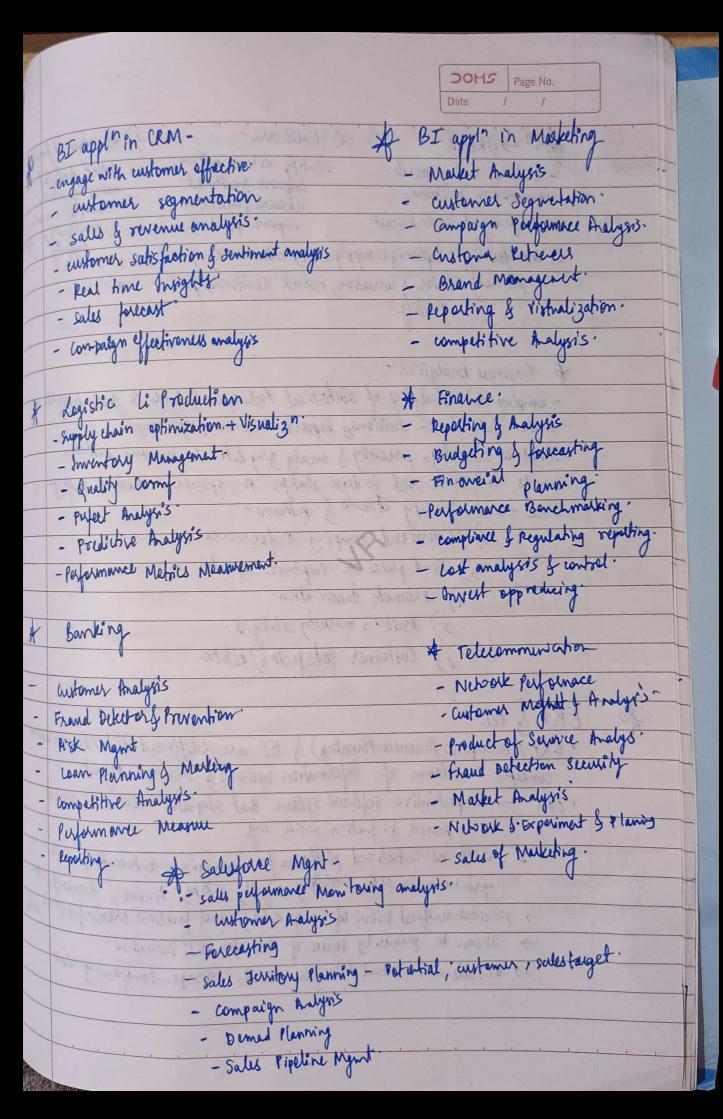
· Jablean - data bux (B2 ml) offer deags intrative distributed of reports no confinging aggregation facility, allows glaspatial analysis reculoularly & shaling.

snow flake- cloud basel washing platform, sulable, electic, teplates.
Stronge, compute ressuld an ulcoulors.

Apache Kefle - distribiting streamy, platform, handle hert time dute stocam, of swent collect, processing & streaming. high replication, fault tellurce

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	Role of Fralytical tools in BI-
TIM	1) Data exploading & Analysis 2) Decision Making & Strategy development
	3) Report Generation (1) Forecasting & Data Modeling.
· Uhandhi	1) Data exploading & Analysis 2) Decision Making & Stoategy development 3) Report Generation (1) Forecasting & Data Modeling. 5) Collaboration & Strategies 7) Roull time Streaming Analysis.
*	WEKA - Waikato Envisonment for knowledge learning -
	WEKA - Waikato Envisonment for knowledge learning - data mining & visulization tool
- 01	- open source ' - features - data preprocessing.
1"	- features -> data preprocessing.
	- open source - features -> data preprocessing. - classifications prediction -> classifications
ALABATA	
* - 20	5) Duta washing half displant to ender & one of a cate w
031	phoovaries and send that send of (
- 4	2) Simple CLT: A Covered by the po
	3) Experiment - a wholm
	4) Knowledge flow - Orag & Desp.
- Naubugh	Promote - Manual tomas Harania - January .
Cy has lines	- support verifies of Maly contes CSV databases QD EF.
	- supports verifies of data similar CSV, databases, AR FF. Tree
Fred	Francis Campfeation algo - KNN, Naive Rayes, SVM, Decision 2009
(selvo)	- evolution metrics for ML models includes feature selection test
	- offers ensimble learning.
(Member	- large collection of 3rd purp extensioning
LINE STEERING	- complichensive scalle of looks of algo for preprocessing
1 showings	- compliehensive scalle of books of also for preprocessing dansif, regression, feature seth, association necks.
Roya	programs a relation of executions from town long a replacement fourth follows
	topod francis



2) Health care - - 1 3) Bi noneval factor. Appl" -> 1) Retail identify disease pottom, asses credict about a come asses credict identify investment appointing to some - customes distany trends , recommends on aptimens reaseasch & innovation improve potention. investing ment, screen forecast. a) Manufachting : aprimize supply chain, monitor equipment, pio moly detector & correction, reduce downtime, prod Busines Analytics -- employ data analyties of statistical techniques of tools to gain insights to make duta deiven deisions jimpreve businers performance--involves collecting, processing & analy zing date to uncome patheen trends that combe used to drive strategic of sporthers deceried making.

Need -) I destify I steads of patherns. 2) Understand company Performance 3) Find places to improve operator 4) Promote ganor abon.

5) 1881 + in muterly stolegic.

6) Customer sensfaction/ Relation

· ERP (Enterprise Resource Planning) & BT are 2 different but interconnected concepts in release of Information System & Business Mgmt. · ERP - comprehensive software system that integrates various business precus of fretion within ay. - series as certailized platform for managing, and making one yrenhomo -> HK, inventory ngnt, CRM, tinece, accounty colo > provides unified view of args data, and facilities orders. frethonal albor > It can be primarily source of data for Bt initiations. -> BItails com entruet data from ERP, morage, handaming stal.

