ML DAA	Classification: Decision Tree Dataset: madfhantr.csv Dream Housing Finance company deals in all kinds of home loans. They have presence across all urban, semi urban and rural areas. Customer first applies for home loan and after that company validates the customer eligibility for loan. Company wants to automate the loan eligibility process (real time) based on customer detail provided while filling online application form. These details are Gender, Marital Status, Education, Number of Dependents, Income, Loan Amount, Credit History and others. To automate this process, they have provided a dataset to identify the customers segments that are eligible for loan amount so that they can specifically target these customers. Write a program to implement Fractional knapsack using Greedy algorithm and also find the maximum profit
	Given items I= (I1,I2,I3,I4,I5), Weight w=(5,10,20,30,40) and Profit p=(30,20,100,90,160). Let us consider that the capacity of the knapsack W = 60. Find the maximum profit \mathbf{OR}
ADBMS	Create collection called CUSTOMER with following fields in documents-Cust_No, First_Name, Last_Name, Address, City, State, Pincode, B_Date, Status: the values for status must be in ('Married','Unmarried','Divorcee'). Implement following queries • Display all the documents where state is KARNATAKA. • Delete the document where PIN CODE is 576201. • Change the ADDRESS as "PICT,Trimurti chowk, Dhankawadi" AND Pin cde as 411041 where CUST_NO is 1003. • Display Total Number of Married, unmarried and Divorcee Customers • Sort and display the customer data, in the alphabetic order of city. • Retrieve records of Karnataka / Kerala customers who are Married ('M'). • Perform Create Index, get Index and drop index operation on collection. • Write a mapreduce/aggregation function to calculate total customer per City.

\bigcap].		Classification: Naïve Bayes
	\mathbf{ML}	Dataset: NaiveBayes.csv
		Use probabilistic approach to implement Classifier model. Evaluate the performance of the model.
	DAA	Write a program to implement $0/1$ knapsack using dynamic programming and also find the maximum profit. Number of objects $n=4$, Knapsack Capacity $M=5$, Weights (W1, W2, W3, W4) = $(2, 3, 4, 5)$ and profits (P1, P2, P3, P4) = $(3, 4, 5, 6)$.
	l	OR
	ADBMS	 Design the Employee Management System(Institute have different departments like Administrative, Account, Library, CSE,IT,ET,FE etc) each department have different employees with different attribute like empid, ename, city, educational background, salary post, join date, leaving date if any, Skills etc. using MongoDB List out the employees who are earning salary between 30000 and 45000. List out the department name having at least four employees. Find out no. of employees working in "IT" department. Display the name of employee who get the maximum salary. Display Name of Department who have maximum of employees. Update Name of Department from 'IT' to "Information Technology". Perform Create Index, get Index and drop index operation on collection. Write a MapReduce/Aggregation function to display total number of employees per department.

ML	Clustering: K-Means Dataset: Cities_r2.csv Apply Data pre-processing (Label Encoding, Data Transformation) techniques if necessary. Apply K-Means clustering algorithms (based on total_graduates) to find the group of customers.		
DAA	Write a program to implement Bellman-Ford Algorithm using Dynamic Programming and verify the time complexity		
	OR		
	Create Order Management System using MongoDB and Implement Following Statements		
ADBMS	 Retrieve all the documents from collection. List name of Customer who purchased product "Mobile". Change the product quantity from 1 to 3 of product "Laptop" of any order. Using \$exists, tell me how many customers belongs from Pune city. Find the customer who purchased shoes and cloth product. Find the top 3 buyers. Display all the orders where total amount is >20000. Perform Create Index, get Index and drop index operation on collection. write a MapReduce or aggregation function which will return the Total Price per order 		

ML	Clustering: Hierarchical Dataset: Cities_r2.csv Apply Data pre-processing (Label Encoding, Data Transformation) techniques if necessary. Apply Hierarchical clustering algorithms (based on effective_literacy_rate_total column) to find the group of customers. Write a recursive program to find the solution of placing n queens on
DAA	the chessboard so that no two queens attack each other using Backtracking
	\mathbf{OR}
ADBMS	Design the Employee Management System(Institute have different departments like Administarative, Account, Library, CSE,IT,ET, FE etc) each department have different employees with different attribute like empid, ename, city, educational background, salary, post, join_date, leaving date if any, Skills etc. using MongoDB Implement following statements. • List all the employee from institute. • List the employee details that are from Baroda or Ahmedabad and working in CSE department. • List of the empid, ename, department number and skill of employee whose join date is 20th of any month. • Calculate total experience of employee. Consider the today's date. • List the name of employee whose name staring with 's' or 'm' character who are working in FE department and having "Programming" skill. • Count the no of employee working in ETC department of Pune Location. • Calculate department wise total salary and display only those departments which pay maximum salary. • Perform Create Index, get Index and drop index operation on collection. • Using Mapreduce/aggregation Display total no of employees from each department.



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ML	Clustering: K-Means Dataset: Cities_r2.csv Apply Data pre-processing (Label Encoding , Data Transformation) techniques if necessary. Apply K-Means clustering algorithms (based on
	effective_literacy_rate_total column) to find the group of customers. Write a program to find sum of subset using backtracking approach. M = 35 and i) w = {5, 7, 10, 12, 15, 18, 20} ii) w = {20, 18, 15, 12, 10, 7, 5} iii) w = {15, 7, 20, 5, 18, 10, 12} Are there any discernible differences in the computing time ?
	in the computing time ? OR
ADBMS	Create Order Management System using MongoDB and Implement Following Statements • Display all documents in a collection • List the customer in ascending order of theirnames. • Display all the orders which placed before April 2022 • Display Name of Customer who purchased order whose price is more than 25000. • Display all orders that contain product "PenDrive" • Update Order_date of Any order Purchased by Customer "ABC". • List all documents with orders that contain products whose quantity is less than 10. • Display the Mob No of customers who have highest Buying Total. • Perform Create Index, get Index and drop index operation on collection. • Using MapReduce/Aggregation display total order per customer.

	Clustering: Hierarchical
	Dataset: hitters.csv
ML	Apply Data pre-processing (Label Encoding, Data
	Transformation) techniques if necessary. Apply Hierarchical clustering algorithms (based on CRuns column) to
	find the group of players.
DAA	Write a program to find sum of subset using backtracking approach.
DAA	M = 35 and
	i) $w = \{5, 7, 10, 12, 15, 18, 20\}$
	ii) $w = \{20, 18, 15, 12, 10, 7, 5\}$ iii) $w = \{15, 7, 20, 5, 18, 10, 12\}$ Are there any discernible differences
	in the computing time?
	OR
	Design the Student Management System(Institute have different
	departments like CSE,IT,ET,FE etc) each department have different
	employees with different attribute like student_id, student_name,
	address, birthdate, CGPA, fee, current_year(FE/SE/TE/BE), join_date,
	Skills etc. using MongoDB Implement following statements.
	implement following statements.
	• Display the count of total no students from institute.
	• Display all the Students in seniority level (based on CGPA)
ADBMS	List the student details that are from Baroda or Ahmedabad
	and in CSE department.
	• List of the studentid, studentname, department number and skill of student whose birth date is 20th of any month.
	 Calculate age of each student. Consider the today's date.
	 List the name of student whose name staring with 's' or 'm'
	character who are in computer department and having
	typing skill.
	• Count the no of student in IT department of Pune.
	Arrange the student name in alphabetic order whose age To the student name in alphabetic order whose age
	between 18 to 20 and in ETC department. • Parform Create Index, get Index and drap index energian
	 Perform Create Index, get Index and drop index operation on collection.
	Write mapreduce or aggregation function to Display total
	no of students from each department

	ML	Clustering: K-Means Dataset: Social_Network_Ads.csv Apply Data pre-processing (Label Encoding, Data Transformation) techniques if necessary.
J		Apply K-Means clustering algorithms (based on EstimatedSalary column) to find the group of users.
	DAA	Write a recursive program to find the solution of placing n queens on the chessboard so that no two queens attack each other using Backtracking
		OR
	ADBMS	Create Order Management System using MongoDB and Implement Following Statements Retrieve all the documents from collection. List the customer in ascending order of their age. Display total No of Orders. Display the Mob No of customers who have purchased product "Shoes". Display how many customers are there in customer collection. Display Total No product purchased in order_id:2. Add Another product with quantity 2 in order_id:3 of customer "ABC". Perform Create Index, get Index and drop index operation on collection. write a MapReduce/aggregate function which will return the Total order per Customer.

ML	Clustering: Hierarchical Dataset: 50_Startups.csv Apply Data pre-processing (Label Encoding, Data Transformation) techniques if necessary. Apply Hierarchical clustering algorithms (based on PROFIT column) to find the group of start-ups.
DAA	Write a program to implement Bellman-Ford Algorithm using Dynamic Programming and verify the time complexity
	OR
	Create Order Management System using MongoDB and Implement Following Statements
ADBMS	 Retrieve all the documents from collection. List the customer in ascending order of their age. Display total No of Orders. Display the Mob No of customers who have purchased product "Shoes". Display how many customers are there in customer collection. Display Total No product purchased in order_id:2. Add Another product with quantity 2 in order_id:3 of customer "ABC". Perform Create Index, get Index and drop index operation on collection. write a MapReduce/aggregate function which will return the Total order per Customer.



	Regression: Simple Linear Dataset: diabetes.csv
	Apply Data pre-processing (Label Encoding, Data Transformation)
ML	techniques if necessary.
	Use any one feature of the dataset to train and test the regression model. Also
	calculate coefficients, residual sum of squares and the coefficient of determination
DAA	Write a program to implement 0/1 knapsack using dynamic programming and also
	find the maximum profit Number of objects $n = 4$, Knapsack Capacity $M = 5$, Weights (W1, W2, W3, W4) = $(2, 3, 4, 5)$ and profits (P1, P2, P3, P4) = $(3, 4, 5, 6)$.
	$\frac{\mathbf{OR}}{\mathbf{OR}}$
	Design the Student Management System(Institute have different departments like
	CSE,IT,ET,FE etc) each department have different employees with different
	attribute like student_id, student_name, address, birthdate, CGPA, fee,
	current_year(FE/SE/TE/BE), join_date, Skills etc. using MongoDB Implement following statements.
1	imprement rone wing statements.
	• Display the count of total no students from institute.
	Display all the Students in seniority level(based on CGPA) List of the students in seniority level(based on CGPA)
	 List the student details that are from Baroda or Ahmedabad and in CSE department.
ADBMS	 List of the studentid, studentname, department number and skill of student whose birth date is 20th of any month.
	• Calculate age of each student. Consider the today's date.
	• List the name of student whose name staring with 's' or 'm' character who are in computer department and having typing skill.
	• Count the no of student in IT department of Pune.
	• Arrange the student name in alphabetic order whose age between 18 to 20 and in ETC department.
	 Perform Create Index, get Index and drop index operation on collection.
	 Write mapreduce or aggregation function to Display total no of students from each department.

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ML	Regression: Simple Linear Dataset: 1.01. Simple linear regression Apply Data pre-processing (Label Encoding, Data Transformation) techniques if necessary. Explore the relationship between students SAT score and GPA using
	linear regression model. Also display the regression results and plot the regression line.
DAA	Write a program to implement Fractional knapsack using Greedy algorithm and also find the maximum profit Given items I= (I1,I2,I3,I4,I5), Weight w=(5,10,20,30,40) and Profit p=(30,20,100,90,160). Let us consider that the capacity of the knapsack W = 60. Find the maximum profit
	\mathbf{OR}
ADBMS	Create Order Management System using MongoDB and Implement Following Statements Display all documents in a collection List the customer in ascending order of their names. Display all the orders which placed before April 2022 Display Name of Customer who purchased order whose price is more than 25000. Display all orders that contain product "PenDrive" Update Order_date of Any order Purchased by Customer "ABC". List all documents with orders that contain products whose quantity is less than 10. Display the Mob No of customers who have highest Buying Total. Perform Create Index, get Index and drop index operation on collection. Using MapReduce/Aggregation display total order per customer

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	Clustering: K-Means We have given a collection of 8 points, P1-[0.1.0.6] P2-[0.15.0.71]
ML	We have given a collection of 8 points. P1=[0.1,0.6] P2=[0.15,0.71] P3=[0.08,0.9] P4=[0.16, 0.85] P5=[0.2,0.3] P6=[0.25,0.5]
14117	P7=[0.24,0.1] $P8=[0.3,0.2]$. Perform the k-mean clustering with initial centroids
	as m1=P1 =Cluster#1=C1 and m2=P8=cluster#2=C2. Answer the following 1]
	Which cluster does P6 belongs to? 2] What is the population of a cluster around
	m2? 3]
	What is the updated value of m1 and m2?
DAA	Write a program to implement Fractional knapsack using Greedy algorithm and
	also find the maximum profit
	Given items I= (I1,I2,I3,I4,I5), Weight w=(5,10,20,30,40) and Profit p=(30,20,100,90,160). Let us consider that the capacity of the knapsack $W = 60$. Find the maximum profit
	OR
	Design the Employee Management System(Institute have different departments
	like Administrative, Account, Library, CSE,IT,ET, FE etc) each department have different employees with different attribute like empid, ename, city, educational
	background, salary, post, join_date, leaving date if any, Skills etc. using
	MongoDB Implement following statements.
	• List all the employee from institute.
	• List the employee details that are from Baroda or Ahmedabad and
	working in CSE department.
	• List of the empid, ename, department number and skill of employee
ADBMS	whose join date is 20th of any month.Calculate total experience of employee. Consider the today's date.
ADDIVIS	 List the name of employee whose name staring with 's' or 'm' character
	who are working in FE department and having "Programming" skill.
	• Count the no of employee working in ETC department of Pune
	Location.
	• Calculate department wise total salary and display only those
	departments which pay maximum salary.
	• Perform Create Index, get Index and drop index operation on collection.
	Using Mapreduce/aggregation Display total no of
	employees from each department.

^		Regression: Simple Linear				
1()		Dataset: advertising.csv				
()_	ML	Apply Data pre-processing (Label Encoding, Data Transformation)				
16		techniques if necessary.				
		Explore whether TV advertising spending can predict the number of sales for				
		the product. Also display the regression results and plot the				
		regression line.				
	DAA	Write a program to implement Fractional knapsack using Greedy				
		algorithm and also find the maximum profit				
		Given items I= (I1,I2,I3,I4,I5), Weight w=(5,10,20,30,40) and Profit p=(30,20,100,90,160).				
		Let us consider that the capacity of the knapsack $W = 60$. Find the maximum profit				
	OR					
		Create Order Management System using MongoDB and Implement Following				
		Statements				
		• Retrieve all the documents from collection.				
		• List name of Customer who purchased product "Mobile".				
		• Change the product quantity from 1 to 3 of product "Laptop" of any order.				

Find the top 3 buyers.

Total Price per order.

city.

collection.

ADBMS

Using \$exists, tell me how many customers belongs from Pune

Find the customer who purchased shoes and cloth product.

Perform Create Index, get Index and drop index operation on

write a MapReduce or aggregation function which will return the

Display all the orders where total amount is >20000.

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	Regression	n: Simple Line	ear				
	Dataset: ac	dvertising.csv					
ML	Apply Dat	a pre-processi	ing (L	abel E	ncod	ing,	Data Transformation)
		s if necessary.					
	-				-	_	can predict the number
			Also	display	y the	regre	ession results and plot the
	regression			0/1.1		1	
DAA	_	ogram to impl			_		- -
	programm	ing and also f	ina tn	e maxi	mum	i proi	111
	Consider no	o. of objects n =	= 4. gi	ven ca	nacity	л М =	= 8
	Consider in	or objects in	., 5-	· OII Cu	paore	, 1,1	
		Items	1	2	3	4	
		Value	15	10	9	5	
		Weight	1	5	3	4	
OR							
Design the Employee Management System(Institute have different							
	departm	ents like Adn	ninist	rative	, Acc	count	t, Library, CSE,IT,ET,FE etc) each
	department have different employees with different attribute like empid,						
	ename, city, educational background, salary, post, join date, leaving date if						
	any, Skills etc. using MongoDB						
	• List out the employees who are earning salary between 30000 and 45000.						
	 List out the department name having at least four employees. Find out no. of employees working in "IT" department. 					naving at least four employees.	
ADBMS							-
	•				-	•	who have maximum of employees.
	•			-			rom 'IT' to "Information
		Technology		r			
	•			ndex,	get l	Index	x and drop index operation on
		collection.		•	-		•
	1						

• Write a MapReduce/Aggregation function to display total number of employees per department.

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	Regression: Simple Linear Dataset: advertising.csv						
ML	Apply Data pre-processing (Label Encoding, Data						
	Transformation) techniques if necessary.						
	Explore whether Newspaper advertising spending can predict the						
	number of sales for the product. Also display the regression results						
	and plot the regression line.						
DAA	Write a recursive program to find the solution of placing n queens on						
	the chessboard so that no two queens attack each other using						
	Backtracking						
	OR						
	Create collection called CUSTOMER with following fields in documents-Cust_No, First_Name, Last_Name, Address, City,						
	State, Pincode, B_Date, Status: the values for status must be in ('Married','Unmarried','Divorcee'). Implement following queries						
	 Display all the documents where state is KARNATAKA. 						
	Delete the document where PIN CODE is 576201. Classification of the PIN CODE is 576201.						
	• Change the ADDRESS as "PICT, Trimurti chowk,						
	Dhankawadi" AND Pin cde as 411041 where CUST_No is 1003.						
ADBMS	 Display Total Number of Married, unmarried ar Divorcee Customers 						
	 Sort and display the customer data, in the alphabetic order of city. 						
	 Retrieve records of Karnataka / Kerala customers who are Married ('M'). 						
	 Perform Create Index, get Index and drop index operation on collection. 						
	Write a mapreduce/aggregation function to calculate total customer per City.						

Market Basket Analysis: Apriori Algorithm Dataset: Order1.csv						
ML	The dataset has 38765 rows of the purchase orders of people from the grocery stores. These orders can be analysed, and association rules can be generated using Market Basket Analysis by algorithms like Apriori Algorithm.					
	Follow following Steps:					
	a. Data Pre-processing					
	b. Generate the list of transactions from the dataset					
	c. Train Apriori on the dataset					
	d. Visualize the list of datasets					
DAA	Write a program to find sum of subset using backtracking approach					
M = 35 and i) $W = \{5, 7, 10, 12, 15, 18, 20\}$						
	ii) $W = \{20, 18, 15, 12, 10, 7, 5\}$					
	iii) $w = \{15, 7, 20, 5, 18, 10, 12\}$ Are there any discernible differen					
in the computing time ?						
	OR					
	Create collection called CUSTOMER with following fields in documents-Cust_No, First_Name, Last_Name, Address, City, State, Pincode, B_Date, Status: the values for status must be in ('Married','Unmarried','Divorcee'). Implement following queries					
	Display all the documents where state is KARNATAKA. Delete the decomment where DIN CODE is 576201.					
	 Delete the document where PIN CODE is 576201. Change the ADDRESS as "PICT,Trimurti chowk, Dhankawadi" AND Pin cde as 411041 where CUST_NO 					
ADDMC	is 1003.					
ADBMS	 Display Total Number of Married, unmarried and Divorcee Customers 					
	 Sort and display the customer data, in the alphabetic 					
	order of city.					
	 Retrieve records of Karnataka / Kerala customers who are Married ('M'). 					
	 Perform Create Index, get Index and drop index operation on collection. 					
	Write a mapreduce/aggregation function to calculate total customer per City.					



ML	Market Basket Analysis: Apriori Algorithm Dataset: Order2.csv This dataset comprises the list of transactions of a retail company over the period of one week. It contains a total of 7501 transaction records where each record consists of the list of items sold in one transaction. Using this record of transactions and items in each transaction, find the association rules between items. There is no header in the dataset and the first row contains the first transaction, so mentioned header = None here while loading dataset. Follow following steps: a. Data Pre-processing b. Generate the list of transactions from the dataset c. Train Apriori algorithm on the dataset d. Visualize the list of rules			
DAA	Write a program to solve the travelling salesman problem and to print the path and the cost using LC Branch and Bound. A B C D A 0 4 2 1 B 4 0 13 9 C 2 13 0 8 D 1 9 8 0			
	OR			
ADBMS	Design the Employee Management System(Institute have different departments like Administrative, Account, Library, CSE,IT,ET,FE etc) each department have different employees with different attribute like empid, ename, city, educational background, salary, post, join date, leaving date if any, Skills etc. using MongoDB • List out the employees who are earning salary between 30000 and 45000. • List out the department name having at least four employees. • Find out no. of employees working in "IT" department. • Display the name of employee who get the maximum salary. • Display Name of Department who have maximum of employees. • Update Name of Department from 'IT' to "Information Technology". • Perform Create Index, get Index and drop index operation on collection. • Write a MapReduce/Aggregation function to display total number of employees per department.			

ML	Market Basket Analysis: Apriori Algorithm Dataset: Order3.csv The dataset has 20507 rows and 5 columns of the purchase orders of people from the bakery. These orders can be analysed, and association rules can be generated using Market Basket Analysis by algorithms like Apriori Algorithm. Follow following steps: a. Data Pre-processing b. Generate the list of transactions from the dataset c. Train Apriori algorithm on the dataset d. Visualize the list of rules				
DAA	Write a recursive program to find the solution of placing n queens on the chessboard so that no two queens attack each other using Backtracking				
OR					
ADBMS	Create Order Management System using MongoDB and Implement Following Statements Retrieve all the documents from collection. List name of Customer who purchased product "Mobile". Change the product quantity from 1 to 3 of product "Laptop" of any order. Using \$exists, tell me how many customers belongs from Pune city. Find the customer who purchased shoes and cloth product. Find the top 3 buyers. Display all the orders where total amount is >20000. Perform Create Index, get Index and drop index operation on collection. write a MapReduce or aggregation function which will return the Total Price per order.				



	Classification: Naïve Bayes			
ML	Dataset: pima- indians-diabetes.csv			
	Use probabilistic approach to implement Classifier model. Evaluate the			
—	performance of the model.			
DAA	Write a program to implement Bellman-Ford Algorithm using Dynamic programming and verify the time complexity			
	OR			
Design the Employee Management System(Institute have different department like Administrative, Account, Library, CSE,IT,ET, FE etc) each department h different employees with different attribute like empid, ename, city, educational background, salary, post, join_date, leaving date if any, Skills etc. using MongoDB Implement following statements.				
	 List all the employee from institute. List the employee details that are from Baroda or Ahmedabad and working in CSE department. 			
ADDMG	• List of the empid, ename, department number and skill of employee whose join date is 20th of any month.			
ADBMS	 Calculate total experience of employee. Consider the today's date. List the name of employee whose name staring with 's' or 'm' character who are working in FE department and having "Programming" skill. Count the no of employee working in ETC department of Pune 			
	Location. • Calculate department wise total salary and display only			
	those departments which pay maximum salary.			
	Desferre Courte Index and Index and data index			

- Perform Create Index, get Index and drop index operation on collection.
- Using Mapreduce/aggregation Display total no of employees from each department.

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	ML	Dat
		Use
		perf
	DAA	Wri

ssification: Naïve Bayes taset: Social_Network_Ads.csv e probabilistic approach to implement Classifier model. Evaluate the formance of the model. ite a program to implement 0/1 knapsack using dynamic programming and also find the maximum profit Consider no. of objects n = 4, given capacity M = 8

Items	1	2	3	4
Value	15	10	9	5
Weight	1	5	3	4

OR

Implement Following Statements	
Display all documents in a collection	

ADBMS

- List the customer in ascending order of their names.

Create Order Management System using MongoDB

- Display all the orders which placed before April 2022
- Display Name of Customer who purchased order whose price is more than 25000.
- Display all orders that contain product "PenDrive"
- Update Order_date of Any order Purchased by Customer "ABC".
- List all documents with orders that contain products whose quantity is less than 10.
- Display the Mob No of customers who have highest Buying Total.
- Perform Create Index, get Index and drop index operation on collection.
- Using MapReduce/Aggregation display total order per customer.



	Classification: Naïve Bayes							
ML	Dataset: Social_Network_Ads.csv							
	Use probabilistic approach to implement Classifier model. Evaluate the							
	performan	ce of the mod	el.					
DAA	Write a program to implement 0/1 knapsack using dynamic programming and also find the maximum profit Consider no. of objects n = 4, given capacity M = 8							
		Items	1	2	3	4		
		Value	15	10	9	5		
		Weight	1	5	3	4		
OD.								

OR

ADBMS

Design the Student Management System(Institute have different departments like CSE,IT,ET,FE etc) each department have different employees with different attribute like student_id, student_name, address, birthdate, CGPA, fee, current_year(FE/SE/TE/BE), join_date, Skills etc. using MongoDB

Implement following statements.

- Display the count of total no students from institute.
- Display all the Students in seniority level(based on CGPA)
- List the student details that are from Baroda or Ahmedabad and in CSE department.
- List of the studentid, studentname, department number and skill of student whose birth date is 20th of any month.
- Calculate age of each student. Consider the today's date.
- List the name of student whose name staring with 's' or 'm' character who are in computer department and having typing skill.
- Count the no of student in IT department of Pune.
- Arrange the student name in alphabetic order whose age between 18 to 20 and in ETC department.
- Perform Create Index, get Index and drop index operation on collection.
- Write mapreduce or aggregation function to Display total no of students from each department.

\bigcirc \		Classification: Decision Tree							
() \	\mathbf{ML}	Dataset: pima-indians-diabetes.csv Create & evaluate the decision tree.							
/ /									
L'		Test the decision tree for any random sample.							
	DAA	Write a program to implement Fractional knapsack using Greedy							
		algorithm and also find the maximum profit							
		Given items I= (I1,I2,I3,I4,I5), Weight w=(5,10,20,30,40) and Profit p=(30,20,100,90,160). Let							
		us consider that the capacity of the knapsack $W = 60$. Find the maximum profit							
	OR								
		Create Order Management System using MongoDB and Implement Following							
		Statements							
		Retrieve all the documents from collection.							
		• List the customer in ascending order of their age.							
		Display total No of Orders.							
		 Display the Mob No of customers who have purchased product 							
	ADDIAC	"Shoes".							
	ADBMS	 Display how many customers are there in customer collection. 							
		 Display Total No product purchased in order_id:2. 							
		 Add Another product with quantity 2 in order_id:3 of customer 							
	Ī.								

Perform Create Index, get Index and drop index operation on

write a MapReduce/aggregate function which will return the Total

"ABC".

collection.

order per Customer

