FUTURE VISION BIE

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Future Vision

By K B Hemanth Raj

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DATA MINI	NG AND DATA	WAREHOUSING			
[As per Choice Based Credit System (CBCS) scheme]					
(Effective from the academic year 2017 - 2018)					
SEMESTER – VI					
Subject Code	17CS651	IA Marks	40)	
Number of Lecture Hours/Week	3	Exam Marks	60	0	
Total Number of Lecture Hours	40	Exam Hours	03		
CREDITS – 03					
Module – 1				Teaching Hours	
Data Warehousing&modeling:	Basic Conce	pts: Data Warehousing	g: A	8 Hours	
multitier Architecture, Data warehouse models: Enterprise warehouse,Data mart				Ollouis	
and virtual warehouse, Extraction, Transformation and loading, Data Cube: A					
multidimensional data model, Stars, Snowflakes and Fact constellations:					
Schemas for multidimensional Data models, Dimensions: The role of concept					
Hierarchies, Measures: Their Categorization and computation, Typical OLAP					
Operations.	80112401011 01114	Tompwww.on, Typrour	,		
Module – 2					
Data warehouse implementation Data mining: Efficient Data Cube 8 Hours					
computation: An overview, Indexing OLAP Data: Bitmap index and join index,					
Efficient processing of OLAP Queries, OLAP server Architecture ROLAP versus					
MOLAP Versus HOLAP: Introduction: What is data mining, Challenges, Data					
Mining Tasks, Data: Types of Data, Data Quality, Data Preprocessing, Measures					
of Similarity and Dissimilarity,					
Module – 3					
Association Analysis: Association Analysis: Problem Definition, Frequent Item 8 Hours					
set Generation, Rule generation. Alternative Methods for Generating Frequent				Ollouis	
Item sets, FP-Growth Algorithm, Evaluation of Association Patterns.					
Module – 4	aradion of 7133	ociation i atterns.			
	duction Method	for Comparing Class	ifiers	8 Hours	
Classification : Decision Trees Induction, Method for Comparing Classifiers, Rule Based Classifiers, Nearest Neighbor Classifiers, Bayesian Classifiers.				0 110u15	
Module – 5	gilloi Classifiei	s,Dayesian Classifiers.			
	V Moons	Agglomerative Hierard	phical	8 Hours	
Clustering, DBSCAN, Cluster Ev				0 110u15	
=		ty-Dased Clustering, O	napn-		
Based Clustering, Scalable Clustering Course outcomes: The students sho					
Understands data mining pro			se		
 Demonstrate the association rules for a given data pattern. Discuss between classification and clustering solution. 					
	on and clustering	g solution.			
Question paper pattern:	. •				
The question paper will have TEN of					
There will be TWO questions from					
Each question will have questions covering all the topics under a module.					
The students will have to answer FIVE full questions, selecting ONE full question from each					
module.					
Text Books:					

https://hemanthrajhemu.github.io

1. Pang-Ning Tan, Michael Steinbach, Vipin Kumar: Introduction to Data Mining,

- Pearson, First impression, 2014.
- 2. Jiawei Han, MichelineKamber, Jian Pei: Data Mining -Concepts and Techniques, 3rd Edition, Morgan Kaufmann Publisher, 2012.

Reference Books:

- 1. Sam Anahory, Dennis Murray: Data Warehousing in the Real World, Pearson, Tenth Impression, 2012.
- 2. Michael.J.Berry,Gordon.S.Linoff: Mastering Data Mining, Wiley Edition, second edition, 2012.

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