



Karnataka ReddyJana Sangha®  
**VEMANA**  
INSTITUTE OF TECHNOLOGY

(Approved by AICTE – New Delhi, Affiliated to VTU – Belagavi & Recognized by Govt. of Karnataka)



NEWS LETTER | VOLUME 2 | ISSUE 1  
CONFIG 2016 – 17



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Department of Computer Science and Engineering

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## SUPPORT OF



**Sri. H.N. Vijayaraghava Reddy**  
Chairman, Governing Council  
Vemana IT

### VISION

To become a leading department engaged in quality education and research in the field of Computer Science and Engineering.

### MISSION

- To nurture a positive environment with state of art facilities conducive for deep learning and meaningful research and development.
- To enhance interaction with industry for promoting collaborative research in emerging technologies.
- To strengthen the learning experiences enabling the students to become ethical professionals with good interpersonal skills, capable of working effectively in multi-disciplinary teams.



**Dr. Vijayasimha Reddy B.G.**  
Principal - Vemana IT

### PROGRAM SPECIFIC OUTCOMES (PSO's)

At the end of the program the student is able to:

- Analyze, design, implement and test innovative application software systems to meet the specified requirements.
- Understand and use systems software packages.
- Understand the organization and architecture of digital computers, embedded systems and computer networks.



**Dr. T. Yella Reddy**  
Dean R & D - Vemana IT

### PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

After 3-4 years our graduates will be:

- Successful and ethical professionals in IT and ITES industries contributing to societal progress.
- Engaged in life-long learning, adapting to changing technological scenarios.

## HOD Message



**Dr. M Ramakrishna**  
Professor & Head

It gives me great opportunity to present the Newsletter. This issue explores the hidden talents, commitment, involvement and achievement of departmental students and Staff community towards extra and curricular activities. As you read through the pages you will realize, that the department had a particularly successful semester. It motivates, enlightens and enables the Student & Staff community to focus on their goals and achieve more. I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace.



**Art by Sushmita G**  
(1VI15CS104)

## Department Toppers



**SMITHA B SHASTRI**  
1VI15CS097  
2<sup>nd</sup> Sem



**Obulakshmi O**  
1VI14CS079  
4<sup>th</sup> Sem



**Prarthana M**  
1VI13CS072  
6<sup>th</sup> Sem



**Arghya S Jain**  
1VI12CS012  
8<sup>th</sup> Sem



**Art by**  
**Sannidhi A**  
(1VI16CS091)



# DATA MINING

**Data Mining** is an [analytic process](#) designed to explore data (usually large amounts of data - typically business or market related - also known as "[big data](#)") in search of consistent patterns and/or systematic relationships between variables, and then to validate the findings by applying the detected patterns to new.

### The applications of data mining

- Retailers Banks and other financial services providers
- Manufacturing companies
- Educational institutions
- Health care providers
- multiple industries
- The key components of data mining



The process of data mining includes several distinct components that address different needs:

- **Preprocessing.** Before you can apply data mining algorithms, you need to build a target data set. One common source for data is a data mart or warehouse. You need to perform preprocessing to be able to analyze the data sets.
- **Data cleansing and preparation.** The target data set must be cleaned and otherwise prepared, to remove "noise," address missing values, filter outlying data points (for anomaly detection) to remove errors or do further exploration, create segmentation rules, and perform other functions related to data preparation.
- **Association rule learning** (also known as **market basket analysis**). These tools search for relationships among variables in a data set, such as determining which products in a store are often purchased together.
- **Clustering.** This feature of data mining is used to discover groups and structures in data sets that are in some way similar to each other, without using known structures in the data.
- **Classification.** Tools that perform classification generalize known structures to apply to new data points, such as when an email application tries to classify a message as legitimate mail or spam.
- **Regression.** This data mining technique is used to predict a range of numeric values, such as sales, housing values, temperatures, or prices when given a particular data set.
- **Summarization.** This technique provides a compact representation of a data set, including visualization and report generation.

### The risks and challenges of data mining

Data mining comes with its share of risks and challenges. As with any technology that involves the use of potentially sensitive or personally identifiable information, security and privacy are among the biggest concerns.

### **Dr. Mohan G Kabadi**

Dr. Mohan G Kabadi, Professor, Department of Computer Science and Engineering, Sri Sai Vidya Institute of Technology, delivered guest lecture on Advanced Computer Architecture highlighting the necessity of making use of parallel processing for 7th semester students on 29-08-2016.



### **Dr. Kayarvizhy N**

Dr. Kayarvizhy N, Associate Professor, BMSCE, Bengaluru delivered a seminar on "Internet Of Things" on 31-08-2016 to 5th semester students.



### **Dr. Subra Subramanaya**

Dr. Subra Subramanaya, National University in San Diego, US, gave a Seminar on "Cyber Security" on 26-09-2016 to 5th semester students.



## Dr. H S Guruprasad

Dr. H S Guruprasad, Professor, Department of Information Science and Engineering, BMSCE, delivered guest lecture on Data Structures for 3rd semester students on 17-08-2016.



## Industrial Visit

7th semester students visited ICAT Solution, Bommanahalli, on 24-10-2016. The industry giants explained students about gaming software development, many demos were given to students. Students got practical knowledge on gaming using C & UNITY 3D.







## Dr. M Ramakrishna Head Department of CSE

Prof. M Ramakrishna HOD CSE has been awarded degree of Doctor of Philosophy (PhD) in the filed of "Energy efficient routing for MANET's" by Anna University. on 23 March 2016



Dr. S Ambareesh  
Associate Professor Dept. of CSE  
Editor-in-Chief , News letter



S M Y Altamash  
Student Coordinator, News letter  
7<sup>th</sup> Semester, Dept. of CSE