VIDYAJHARI

INFORMATION TECHNOLOGY MAGAZINE FOR THE YEAR

2017-18

VOLUME NO: 8

ANNUAL ISSUE

ADITYA

Institute of Technology and Management

(An Autonomous Institution)

Tekkali–532 201, Srikakulam Dist., AP

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Department of Information Technology

VISION

To evolve into a premier engineering institute in the country by continuously enhancing the range of our competencies, expanding the gamut of our activities and extending the frontiers of our operations.

MISSION

Synergizing knowledge, technology and human resource, we impart the best quality education in Technology and Management. In the process, we make education more objective so that the efficiency for employability increases on a continued basis.

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Department of Information Technology

Vision of the Department

Create high-quality engineering professionals through research, innovation and teamwork for Information Technology services with outstanding faculty, facilities and education.

Mission of the Department

M1: Information Technology program dedicates itself to provide students with a set of skills, knowledge and attitude that will permit its graduates to succeed and thrive as successful information technologists.

M2: Enhance overall personality development which includes innovative thinking, Team work, entrepreneur skills, communication skills, employability skills and ethical conduct.

M3: Ensuring effective teaching–learning process to provide in-depth knowledge of Inter disciplinary areas.

M4: Providing industry interactions through consultancy and sponsored research for the societal needs.

Dr. K. Someswara Rao
Chairman

MESSAGE

At AITAM, we are committed to excellence in everything we do. We strive to mould the students in balancing intellectual and practical skills to become leaders in all the fields of Technical know-how and Management. We have created the finest facilities for the students to make the most of their scholastic pursuits. We are closely aligned with the corporate world which ensures exchange of ideas and experiences that keep our curricula focused on current developments and challenges in the field of engineering. We are firmly committed to research and consulting activities to contribute to the development of the discipline of engineering. Our vitality lies in our spirit of innovation. Our strength lies in our pragmatic approach. Our success lies in our will to do.

**Sri. L L Naidu
Secretary**

MESSAGE

Aditya Institute of Technology and Management is founded to meet the increasing demand for competent engineering graduates. Within a short span of its inception, AITAM has grown to be a premier engineering college of its kind and has won laurels and kudos from the industry. The faculty and staff in AITAM are dedicated to providing first-class education that instils strong and potent basic knowledge for sound practice in science and engineering for the well-being of the society. The Institute offers curricula that nurtures creative thinking and prepares students for productive and rewarding careers. The Institute offers programmes that deepen learning experiences of our students and prepare them for successful careers as engineers.

Prof. V V Nageswara Rao
Director

MESSAGE

Engineering education at AITAM is indeed a rewarding intellectual experience. The Institute prepares the engineering professionals of tomorrow imbued with insight, imagination and ingenuity to flourish as successful engineers. Our programs are attuned to the needs of the changing times. The classrooms are ultra-modern; the library and labs are cutting-edge; and all the members of the faculty are workaholic professionals and masters in their fields. Not surprisingly, our students are recruited by such renowned organizations as HCL, Satyam, WIPRO, INFOSYS, TCS, Visual Soft, Innova-Solutions and InfoTech. The exceptional dedication of our students, faculty and staff, and our collaborations with Industry and other institutions ensure that the Institute is well-poised to create a unique niche in the horizons of engineering education.

Dr.K B Madhu Sahu
Principal

MESSAGE

It is only through knowledge that man attains immortality. Knowledge has to expand or grow to remain as knowledge. The road to excellence is toughest, roughest and steepest in the Universe. The world requires and honors only excellence. Available information has to be directed by wisdom and intelligence to create new knowledge. Promotion of creativity is the new role of education. It is only through creative thinking that the present and future problems can be addressed to find dynamic solutions. Technology should be used to help remove poverty from the world. In fact forty per cent of the world's poor are in India. Confidence leads to capacity. It is faith in oneself that produces miracles. Education at AITAM helps build character, strengthen the mind, expand the intellect and establish a culture of looking at problems in a new perspective. The student is put through rigorous training so that he can stand on his own feet after leaving the portals of the Institute.

Dr. B V Ramana
HOD, IT Department

MESSAGE

Information Technology is a professional engineering discipline that deals with application of computers to store, retrieve, transmit and manipulate data. Our department has a team of qualified and experienced faculty and staff members and we are motivation both faculty and students continuously to improve the quality of education and to maintain its position of leadership in engineering and technology. The department guides the students to develop their technical skills and motivate them to learn in research methodology. Our department has been conducting National workshops and organizing seminars since its beginning to keep the faculty and students with the latest developments in the field of technical education. Our department faculties are actively published in reputed international and national journals and actively participated in various international and national conferences to publish papers.

B.Tech Project Abstracts

S.NO	ROLL NO.	STUDENT NAME	TITLE
1	13A51A1203	SUJIT KUMAR SHAH	Bayesian Classification for Loan Prediction
	13A51A1202	PRAMOD KHANAL	
	14A51A1203	K.SAIRAM	
	14A51A1201	AVINASH YADAV	

Abstract:

Data mining is a relatively new field of research whose major objective is to acquire knowledge from large amounts of data. In banking area due to regulations and due to availability of computers, a large amount of data is being available. At the same time a large amount of data cannot be handled by humans in a short period of time in order to make a decision. A major objective of this project is to construct a classifier model to predict whether to grant loan or not. Classification is an important data mining task, and relatively low computational complexity. In addition to classifier model, we present the analysis and parallel implementation of the naïve basis algorithm using various heuristics along with experimental results.

S.NO	ROLL NO.S	STUDENT NAME	TITLE
2	14A51A1204	K. Srija	FACE RECOGNIZATION
	14A51A1205	P Nagaraju	
	14A51A1207	S. Sabareesh	
	14A51A1211	V.Rajesh	

Abstract:

Image processing ABSTRACT From the last two decades, face recognition is playing an important and vital role especially in the field of commercial, banking, social and law enforcement area. It is an interesting application of pattern recognition and hence received significant attention. The complete process of face recognition covers in three stages, face detection, feature extraction and recognition. Various techniques are then needed for these three stages. Also these techniques vary from various other surrounding factors such as face orientation, expression, lighting and background. This paper presents the complete study and review of various techniques used in face detection and feature extraction staged under different conditions.

S.No	Roll No.S	Student Name	Title
3	14A51A1208	T SUPRIYA	TECHSEVA
	14A51A1210	M VASUNDHARA	
	14A51A1212	V SURYATEJA	

Abstract:

We have seen over the years that the process of applying different services in meeseva has been carried out across almost in all villages, cities and towns. The process is not only time consuming but also sometimes it may not be available in the hands of people data while applying any government services in meeseva. Following this thought we have proposed sufficient data of government services in meeseva based on the concept of web services which is implemented as an android mobile application that communication with the database residing on a remote server and it contains the various modules of the system and its implementation.

S.NO	Roll No.	Student Name	Title
4	14A51A1213	P VINEETHA	SMART SCIENCE FICTION
	14A51A1206	P PARAMESH NAIDU	
	14A51A1209	V PUJA	

Abstract:

Now a day's students in the school are ready to face the challenges over the talent hunting events. Schools have come up with a solution like conducting science fiction days annually to test the students. Though it is a good move but it is taking a long time to maintain all the data of the students and are failing to gather all the subjects under a single platform. So we came upwith a new solution "SMART SCIENCE FICTION" which over comes all these. Basically "SMART SCIENCE FICTION "is a Web Application which enables the students to connect all the subjects on single platform. This also connects multiple schools to conduct the talent tests in their school through online. This application is helpful in maintaining the previous performance of the student and gives the guidelines to enhance their knowledge. This application is based on the time limit for the exam. This application contains questions from all the subjects and also the questions based on general awareness. This is very easy to maintain the data of the students. By this application we can enhance the quality of education in schools and also guide the students to improve their knowledge. This is also helpful to students to know their IQ levels. This makes the schools to conduct talent tests very fast and in an efficient way.

FACULTY PUBLICATIONS

+ **"Big Data Analytics on Indian Crop Planning to Increase Agricultural Production"**
   Ch Chandra Sekhar, J Uday Kumar, B Kishore Kumar

Abstract :

To find a hidden pattern in crop sales by applying data clustering on it. By using time or crop type as the clustering factor, to predict the schedule of crop sowing/planting or decide which crop should be sown/planted in the season. If the pattern of such crops are already known, one can set the plan, when to harvest the product, how much the price and how many. To show results, data clustering will be used to analyze the data pattern, crop pattern and crop sales pattern. Besides, it predicts the price of crops in further years or a season which helps farmers to adopt the crop cultivation plan. This paper emphasizes the use of Big Data (BD) which helps the farmers will upgrade the worth of their products via less pesticides to be focused.

Editorial Board

Faculty

G Jagadeeswara Rao
Dr.P Prasantham

Students

1. P.Nagaraju, IV-IT

2. S. Vishnu Sai , III-IT

3. P.Vikram, II-IT

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