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Tech Bytes

- APRIL 2022

DEPARTMENT OF COMPUTER SCIENCE
& ENGINEERING

NSRIT

**NADIMPALLI SATYANARAYANA RAJU
INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)**

ESTD:2008

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)

Recognized under Section 2(f) & 12(B) of the UGC Act, 1956 | Accredited by NAAC with 'A' Grade

VISION

To become Centre of excellence for technically competent, innovative computer engineers.

MISSION

- To provide quality education and spread professional & technical knowledge, leading to a career as computer professionals in different domains of industry, governance and academia.
- To provide state-of-art environment for learning and practice.
- To impart hands on training in latest methodologies and technologies as per industry requirements.

ABOUT THE DEPARTMENT

The department of Computer Science and Engineering was formed in the year 2008. The department has started B. Tech programme with an initial intake of 60 in the year 2008 and 120 from 2010 onwards. Two new programmes CSE (AI & ML) with an intake of 30 and CSE (DS) with an intake 30 are approved by AICTE in the year 2020. The department has 28 qualified teaching staff with 4 Ph.Ds. and 24 M. Tech. The faculty members are involved in research activities and published/presented papers in national and international journals and conferences.

CHAIRMAN'S MESSAGE



The global technological scenario is changing faster than ever, and there is a great demand for technical professionals who can keep pace with the change. With this end in view SVVS Educational Society headed by Sri N. Satyanarayana Raju established **Nadimpalli Satyanarayana Raju Institute of Technology** (Formerly Known as VITS College of Engineering) to impart high quality technical education in the fields of Engineering and Management. The prime concern was to empower young boys and girls joining our institution, with talent and creativity to meet the challenges they encounter in the 21st century world of technology. We are proud that our institution with well-qualified and committed faculty and hi-tech infrastructure enable our students to achieve and challenging world. With this note of confidence, I warmly welcome.

Sri N. Satyanarayana Raju, Chairman

SECRETARY'S MESSAGE



It is often said "Give me a copy of your college magazine, I will tell you about the quality of your college." I strongly believe in this statement. For, a magazine carries the contributions reflecting ethos and aspirations of the students, faculty and other team members of an institution.

I congratulate the team of students and the faculty for their tireless efforts that have come to fruition in the form of this magazine. I wish it all success and hope that this tradition that has been set by the current students will be carried through by the following generation of students to come.

Dr N. Prasad Raju, Secretary.

PRINCIPAL's MESSAGE



It is a matter of great pride and satisfaction for NSRIT to bring out this edition. The College has made tremendous progress in all areas of academic eco-system. The College has achieved another milestone in getting MoUs with organisations. I am confident that this issue will send a positive signal to all who are interested in Technical education. A News Letter is like a mirror that reflects a clear picture of all sorts of activities undertaken by NSRIT. I congratulate the Editorial Board of this News Letter who has played a wonderful role in accomplishing the task in Record time. Also, my heartfelt Congratulations to all members for their fruitful effort. With Best Wishes.

Dr. M. A. Khadar Baba, Principal

DIRECTOR's MESSAGE



I am much delighted to connect with all the stakeholders through this 8th edition of Prasthan, e-newsletter of NSRIT. In the recent days NSRIT is incrementally adding few innovative best practices in the academic ecosystem with strong industry-institute engagement. Several best practices are being implemented in the campus by deploying LMS with unique innovative assessment tools and delivery model. I am sure that in the coming years, NSRIT will have its own credential in doing the things differently to promote learner centric environment and walk tall in line with NEP 2020.

Dr. J. Raja Murugadoss, Director

HOD's MESSAGE



It is a pleasure to head of the department of CSE. The department has a team of experienced and motivated faculty members who are in process of tuning the young minds to make them globally competitive. Our department is committed to provide students with academic knowledge & also trains the students to face the challenges in life by providing many values added courses to enhance their career prospects. The excellent infrastructure, teaching faculty of the best kind ensuring quality education such as interaction among students, parents and staff, along with a Training and Placement Cell ensures a bright future to its students. I wish them all success.

Dr B. Ravikiran, Professor

Faculty Participations/Student Participations

- CSI chapter of the department conducted "**CODEATHON**" contest on 24th December, 2021 through the "HACKER RANK" platform with internal and external participants to empower the students on coding skills.



- CSE Faculty and Students actively participated in **Sankranti Sambaralu** celebrations on 08th January, 2022.



- ACM Student Chapter Organised a webinar on "**Career Path – Thinking**" on 02nd February, 2022 taking the support of Sri Babu Rajendra Kumar, Director, Fresh Works, Hyderabad.



- Dr. M. A. Khadar Baba, Principal, NSRIT who admired all the CSE student volunteers for taking responsibility and appreciated NSS Co-coordinator Ms. Harikeerthana, Asst. Prof, CSE Dept for organizing a special camp in the nearby villages for successfully from 21st March, 2022 to 27th March, 2022 to bring awareness on various social issues and health hygiene.



- Industry driven one credit course on Python in association with its industry partners for the students of second year.
- On the Occasion of "Employee Appreciation Day" on 4th March, 2022 appreciation certificates are awarded to the CSE faculty by HOD-CSE for their Support and Cooperation in department activities.



- NBA Mock Audit was conducted with external experts from other state during 2nd - 3rd February, 2022.



- NBA Department Presentation was given by Dr R. Priya Vijayanthi, Professor, CSE Dept on 11th April, 2022 in IQAC Chamber.



- Online Webinar was conducted on 4th March,2022 by Ms. Ramya, Data Analyst, Amazon Development Centre, Hyderabad (Alumni 2010-2014 Batch).



- Dr K. Madhavi, Assoc. Prof, CSE Dept and Mrs J. Santoshi Kumari, Asst. Prof, CSE Dept Organized International Women's Day Celebrations on 08th March,2022 and Dy. Comdt. Alaknanda Mallam, Coast Guard, Dist. HQ, Vizag addressed the students and also series of Women Alumni Talk for a week by FEM FLORA



- Department signed an MoU with Tilicho Lab, Visakhapatnam on 12th March,2022 for academic collaborations. Tilicho Labs also their operations through students' internship in NSRIT Technology Business Incubation Centre.



- Department of CSE Organized awareness program on "Save Water" through World Water Day on 22nd March, 2022.



- Dr V. Sreeram Murthy, Professor organised a internal Smart India Hackathon on March 23, 2022 in association with NSRIT ACM Students' Chapter



- Department of CSE was inaugurated Buddica New Age Skill Development Centre, an industry sponsored laboratory on 18th April, 2022 to nurture new age talents among students during January 2022.



Student Projects

- **Phishing website detection using machine learning techniques**

M. Vaheed Abbas, B. Thirumala, K. Jahnavi, K. Tulasi

Phishing are one of the most common and most dangerous attacks among cybercrimes. The aim of these attacks is to steal the information used by individuals and organizations to conduct transactions. Phishing websites contain various hints among their contents and web browser-based information. The purpose of this study is to perform Classification and prediction of phishing attacks using random forests VM and logistic regression-based classification for 30 features including Phishing Websites Data.

- **Game Development**

K. Harsha Vardhan Srinivas, Deepak P, Debashish Nandi, S. Mirza Duwal Ali Baig

In today's world, games area \$200 billion industry, with highly skilled developers working around the clock to create interactive works of art. Project Rescue is a third-person shooter with a strong focus on game play and originality. The scenario takes place in space, with a large number of "invaders" attempting to take over the spot where you are. The goal of the game is to eliminate the invaders while keeping your location safe. The game should be adapted to PC devices and made available through the appropriate shop. The game must be able to be expanded in the future for updates and make overs. The project participants will source all of the assets used in the project. The project concept must include the ability to add multiplayer functionality and the ability to add new levels in the future. The assets and game components must have a "space style" art style, similar to War frame. The game's size must be lowered to fit the mobile space, and assets must be added from scratch. Except for the PC version, which must adhere to graphical quality criteria? Project Rescue will hopefully provide us with the opportunity to break into this business and make a bold move toward combining our passion and future chances.

○ Spammer detection and fake user identification

V. Lakshmi Sowjanya, G. Divya, E. Jyothi, G. Deepthika

Online Social Networks (OSNs) are great environments for sharing ideas, following news, advertising products etc., and they have been widely used by many in the world. Although these are the advantages of social networks, it is difficult to understand whether an account in social media platform such as Instagram, Twitter and Facebook really belong to a person or organization. Through creating fake and malicious accounts, unwanted content can spread over the social network. Therefore, the prediction of fake accounts is an important problem. In this study, we applied machine learning algorithms to this problem and we evaluated performances of different activation functions. According to the experimental results, use of machine learning algorithms in detecting fake accounts yielded successful results. The use of various activation functions in different layers of the ANN significantly affects the results. In the literature, other classification methods have been widely used for detecting fake accounts and spammers on online social Network. To the best of our knowledge, there is no brief study that classifies fake accounts using ANNs with different activation functions.

○ E-Housing Rental System

P. Uma, M. Shanmukh Rao, M. Jithendar Balaji, R. Pavan Kalyan

Home/house is one of the basic needs for human being. Today finding a house for rental is becoming complex and time taking. Especially, when we move to a new place for a couple of days, we may able to manage hotels/motels, but for long stay or to establish in that city/town we need to rent a house or an apartment. Time, money and information are the key parameters normally we consider. Out of all these availability information is most important. Similarly for house holders who want to let their houses/apartments, finding a good tenant for good price in a short period/time is also sometimes difficult. The more the vacancy period of the house, the more loss of amount/revenue to the owner. In today's world of development especially information technology and in particular internet we can use it to provide a good and valuable solution to this problem of both house holders and tenants. If, a web-based application that can be portable to mobile as an app facilitates several people. The software app can reduce time, money and place constraints to the large extent.

○ Face Emotion Detection Using Deep Learning(fed)

K. Latha, S. Mounika, Ch. Rajesh, T. Raghunath, K. Dinesh

In our lives emotions are the fundamentals for human beings and play an important role in human cognition. Expressing and recognizing emotions of human are very much important in communication system. Emotions can be expressed through gestures, speech, facial expressions, body language etc. Facial movement is the major role in expressing emotions. Expressing emotions varies from one person to another. Human emotions are classified as surprise, fear, anger, happy, sad, disgust and neutral. Emotions effect human both positively and negatively and at time applies on health of an individual. People while in emotions need to come back to normalcy as quick and as easily as possible. In case of negative emotions (that effect negatively on body) need immediate treatment. Traditionally there are several ways to treat they include listening to music, reading a book, listening to humour, watching a movie, talking to a friend etc., Though these are good ways to overcome emotions, time and place(location) in today's world may have limitations. In today's digital world and days of smart phones we can overcome place and time factors. This necessitated us to think and develop a "Recommendation system" on the state of art technologies and concepts like "DEEP LEARNING". We come up with a solution in the form of "FACE EMOTION DETECTION USING DEEP LEARNING (FED). FED aims to personalize emotions driven recommendation of entertainment. To start with a case, we have chosen Music as it has a great influence on humans and is widely used for relaxing, mood regulation, destruction from stress, to maintain mental and physical work.

FACULTY PUBLICATIONS

1. Ms Bhargavi Marri, Kunjarnageswara Rao, G. Sita Ratnam, P. Mohan, "Implementation of Collaborative Filtering Technique in an E- Commerce System", The International Journal of Analytical and Experimental Modal Analysis (IJAEMA), UGC, Volume XIII, Issue XII, ISSN:0886-9367, Dec,2021.

DEPARTMENT FACULTY

S. No	Name of the Faculty	Qualification	Designation
1	Dr B Ravi Kiran	Ph.D	Professor& HOD
2	Dr R Priya Vijayanthi	Ph.D	Professor
3	Mr K Shankar	M.Tech	Associate Professor
4	Dr T V S Sriram	Ph.D	Associate Professor
5	Dr K Madhavi	Ph.D	Associate Professor
6	Mrs J Santoshi Kumari	M.Tech	Assistant Professor
7	Mrs.D.Aparna	M.Tech	Assistant Professor
8	Mrs.S.Krishna Deepika	M.Tech	Assistant Professor
9	Mrs S Sarojini Devi	M.Tech	Assistant Professor
10	Mr G Srinivasa Rao	M.Tech	Assistant Professor
11	Mrs P Kavya	M.Tech	Assistant Professor
12	Mrs K Sudheeshna	M.Tech	Assistant Professor
13	Mr T Ravi Kumar	M.Tech	Assistant Professor
14	Mrs J Anitha Rani	M.Tech	Assistant Professor
15	Mrs G Santhoshi Kumari	M.Tech	Assistant Professor
16	Mrs T Jayasri Devi	M.Tech	Assistant Professor
17	Mrs T Chandana Gowri	M.Tech	Assistant Professor
18	Mr N. Viswanadha Reddy	M.Tech	Assistant Professor
19	Ms.M.S.S. Vahini	M.Tech	Assistant Professor
20	Mr A Surajkumar	M.Tech	Assistant Professor
21	Mr S Prathap	M.Tech	Assistant Professor
22	Ms B Vineetha	M.Tech	Assistant Professor
23	Mrs.Khadarunnisa	M.Tech	Assistant Professor
24	Mrs.M.Bhargavi	M.Tech	Assistant Professor
25	Ms.P.Mounika	M.Tech	Assistant Professor
26	Ms.P.Sahithi	M.Tech	Assistant Professor
27	Ms.G. Hari Keerthana	M.Tech	Assistant Professor
28	Dr.P.Vishnu Mahesh	M.Tech	Professor

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