

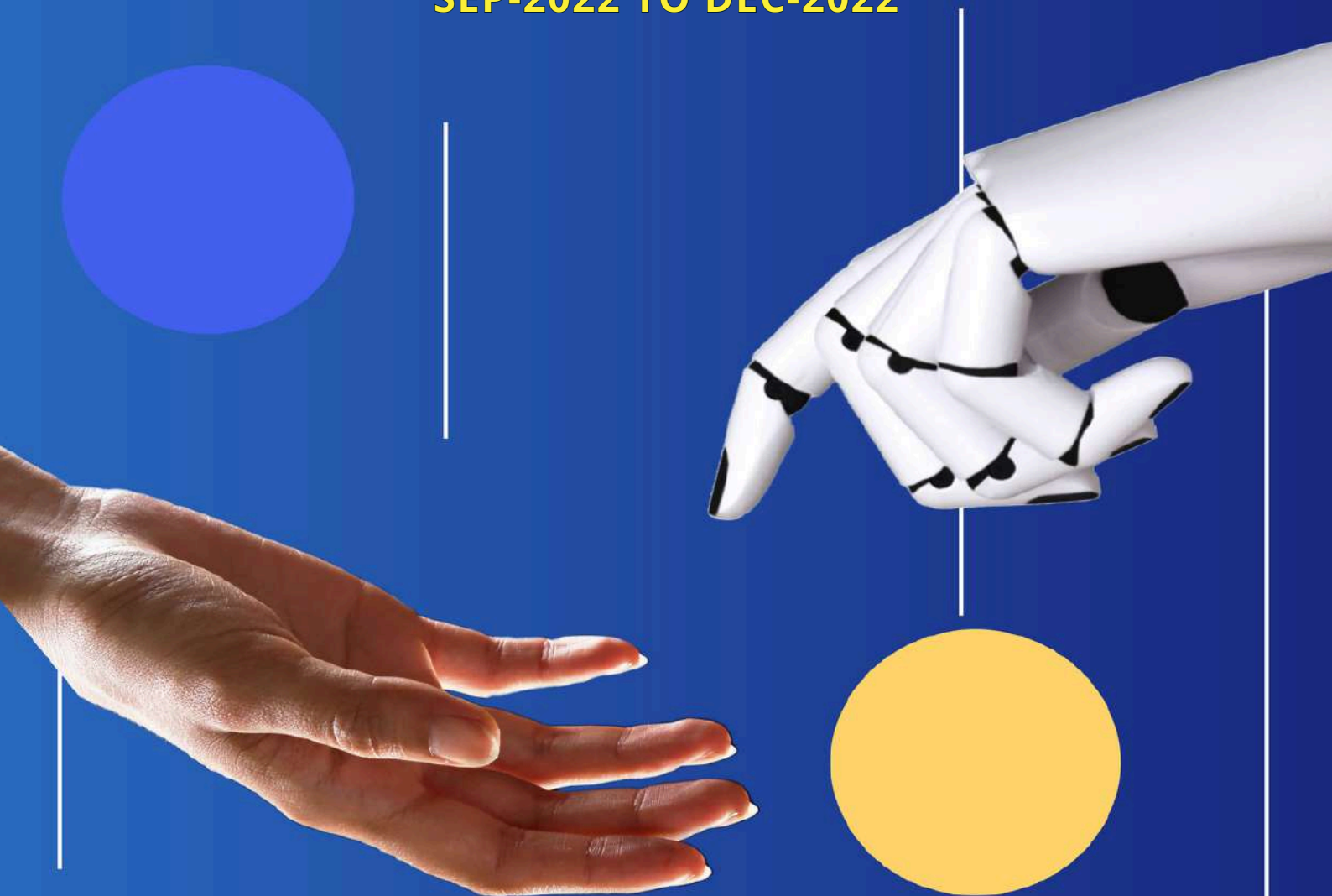


**R. C. PATEL
INSTITUTE OF TECHNOLOGY**

An Autonomous Institute

**Approved By AICTE, New Delhi and Govt. of Maharashtra (DTE: EN - 5172)
Accredited by NAAC 'A' Grade, Bangalore.**

Department of Computer Engineering
SEP-2022 TO DEC-2022



The CompVoice

News Letter for A.Y. 2022-23

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R. C. Patel Institute of Technology
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Department of Computer Engineering

Vision of the Institute

Fostering technical excellence through ethics, sustainable education, innovation and research.

Vision of the Department

To provide high quality Computer Engineering education with socio-moral values.

Mission of the Department

M1 To provide state-of-the-art ICT based teaching-learning process.

M2 To groom the students to become professionally sound computer engineers to meet emerging needs of industry and society.

M3 To make the students employable professionals by inculcating ethical values.

Program Educational Objectives (PEOs) of the Department

PEO1 Graduates will have technical proficiency, lifelong learning skills to become a professional, entrepreneur and leader.

PEO2 Graduates will function effectively in diverse cultural and professional environments, respecting societal perspectives and inclusive practices.

PEO3 To foster ethical and social values to be socially responsible human being.

Program Specific Outcomes (PSOs)

PSO 1 Apply programming principles, algorithms, and data structures to design efficient software solutions and intelligent systems using structured, object- oriented, and emerging technologies.

PSO 2 Design, develop, and deploy responsive web and mobile applications integrated with databases and cloud platforms, leveraging modern frameworks and tools for digital transformation.



R. C. Patel Institute of Technology
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From the Director's Desk



Dear Students, Faculty Members, Staff, Parents, and Esteemed Stakeholders,

I am pleased to reflect on the Academic Year 2022–2023, which marked steady academic progress and continued commitment to quality education at R. C. Patel Institute of Technology, Shirpur.

Throughout the year, the institute remained focused on promoting academic excellence, innovation, and professional ethics. Our dedicated faculty members played a key role in delivering effective teaching and mentoring, while continuously enhancing their academic and professional competencies.

Students actively participated in academic and co-curricular activities, which encouraged skill development, teamwork, and leadership. These experiences complemented classroom learning and helped prepare them for future professional challenges.

We also continued efforts to strengthen industry interaction and promote skill-oriented learning, ensuring our students are well-prepared for a dynamic and competitive environment.

I sincerely appreciate the efforts of our faculty, staff, students, and the continued support of parents and stakeholders. Let us move forward with confidence and determination to achieve greater milestones in the years ahead.

Warm regards,

Dr. J. B. Patil

Director

R. C. Patel Institute of Technology, Shirpur



R. C. Patel Institute of Technology
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From the HOD's Desk



It gives me great pleasure to share a brief reflection on the activities and progress of the Department of Computer Engineering during the Academic Year 2022–2023.

Throughout the year, the department remained focused on promoting academic excellence, technical competence, and continuous learning. Through various academic initiatives, technical events, workshops, and student activities, we encouraged the development of problem-solving skills, innovation, and professional readiness among our students.

The consistent efforts of our faculty members played a vital role in maintaining high academic standards and guiding students toward holistic development. I sincerely appreciate the active participation and dedication of our students, which contributed significantly to the department's achievements.

I extend my heartfelt thanks to the faculty, staff, and students for their commitment and teamwork. I am confident that our collective efforts will continue to strengthen the department and prepare our students to meet future technological challenges with confidence.

With best wishes,

Prof. Dr. Rajnikant B. Wagh

Head, Department of Computer Engineering

R. C. Patel Institute of Technology, Shirpur



R. C. Patel Institute of Technology
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Editorial Board Message



Dear Readers,

With great enthusiasm, I am pleased to present the Department Magazine of Computer Engineering for the academic year 2022–23. This magazine stands as a reflection of our students' creativity, technical competence, and ability to communicate ideas with clarity and confidence.

During the year, the department actively promoted outcome-based and learner-focused education, supported by experiential learning through projects, technical events, and collaborative initiatives. The contributions featured in this magazine highlight the curiosity, innovation, and commitment of our students as they engage with emerging technologies and translate classroom learning into practical applications.

I sincerely acknowledge the dedicated efforts of the student editorial team and faculty members whose cooperation and perseverance made this publication possible. I believe this magazine will serve as a source of inspiration, encouraging students to pursue excellence, innovation, and responsible contributions to the engineering profession and society at large.

Prof. Vipul D. Punjabi
Editor
Assistant Professor
Department of Computer Engineering

Editorial Board Student Member



Ankita Madhukar Patil
Member



Dishant Satish Mahajan
Coordinator



Devendra Rajeshwar Bari
Member



R. C. Patel Institute of Technology
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Faculties Achievements



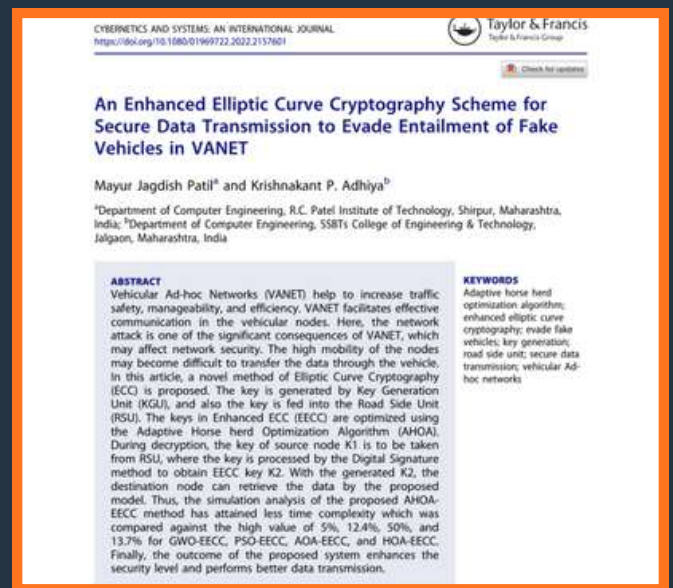
4th Springer International Conference

Mr. Sandip Sonawane

Participated in the 4th springer international conference on data engineering & applications jointly organised by School of information technology Rajiv Gandhi Proudhyogiki vishwavidyalaya (The State technical University of Madhya Pradesh) and Oriental Institute of Science and Technology, Bhopal, on 23rd and 24th December 2022 and presented a paper titled **A REVIEW OF PREPROCESSING TECHNIQUES & CLASSIFICATION IN PRECISION AGRICULTURE.**

Mr. Mayur Jagdish Patil

Published a journal paper with Taylor & Francis titled 'An Enhanced Elliptic Curve Cryptography Scheme for Secure Data Transmission to Evade Entailment of Fake Vehicles in VANET'.



Journal Paper



4th Springer International Conference

Mrs. Puja Dipak Saraf

Participated in the 4th Springer International Conference on Data Engineering & Applications jointly organized by School of Information Technology, Rajiv Gandhi Proudhyogiki Vishwavidyalaya (The State Technical University of Madhya Pradesh) and Oriental Institute of Science & Technology, Bhopal on 23th and 24th December 2022 and presented a paper titled **PLANT DISEASE DETECTION USING MACHINE LEARNING APPROACHES: A REVIEW**



R. C. Patel Institute of Technology
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Faculties Achievements

Mr. Vipul D. Punjabi

With Mr Shyelendra Madansing Pardeshi, Dr Rajnikant Bhagwan Wagh and Dr Dharmaraj Rajaram Patil, professors in the Department of Computer Engineering, have published a patent on SENTIMENT ANALYSIS ON SOCIAL MEDIA FAKE POSTS USING MACHINE LEARNING TECHNOLOGY.

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202321008227 A
(19) INDIA	
(22) Date of filing of Application :08/02/2023	(43) Publication Date : 24/02/2023

(54) Title of the invention : SENTIMENT ANALYSIS ON SOCIAL MEDIA FAKE POSTS USING MACHINE LEARNING TECHNOLOGY

(51) International classification (86) International Application No	(71) Name of Applicant : 1)Mr. Vipul D. Punjabi Address of Applicant: Research Scholar, CSE Department, Oriental University, Indore and Assistant Professor, R. C. Patel Institute of Technology, Shripur 2)Mr. Shyelendra Madansing Pardeshi 3)Dr. Rajnikant Bhagwan Wagh 4)Dr. Dharmaraj Rajaram Patil 5)Dr. Rajesh Kumar Shinde 6)Dr. Dinesh Chandra Aida 7)Mr. Tarvek M. Patilwar Name of Applicant : N/A Address of Applicant : N/A Name of Inventor : 1)Mr. Vipul D. Punjabi Address of Applicant: Research Scholar, CSE Department, Oriental University, Indore and Assistant Professor, R. C. Patel Institute of Technology, Shripur 2)Mr. Shyelendra Madansing Pardeshi Address of Applicant: Research Scholar, CSE Department, Oriental University, Indore and Assistant Professor, R. C. Patel Institute of Technology, Shripur 3)Dr. Rajnikant Bhagwan Wagh Address of Applicant: Associate Professor and Head, Data Science and AIML Department, R. C. Patel Institute of Technology, Shripur 4)Dr. Dharmaraj Rajaram Patil Address of Applicant: Associate Professor, Computer Engineering Department, R. C. Patel Institute of Technology, Shripur 5)Dr. Rajesh Kumar Shinde Address of Applicant: Professor, OIST Bhilga 6)Dr. Dinesh Chandra Aida Address of Applicant: Professor and Head, Computer Science and Engineering Department, Oriental University, Indore 7)Mr. Tarvek M. Patilwar Address of Applicant: Research Scholar, CSE Department, Oriental University, Indore and Assistant Professor, Vaidikdharma University, Pune
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(57) Abstract:
Twitter is a social media tool that a lot of people use throughout the day to communicate their ideas and feelings in a variety of different ways at different times. When discussing data analysis, the term "sentiment analysis" refers to the procedure of identifying and getting the feeling conveyed by the data. The data from Twitter is analyzed to assess the user's state of mind (reactions). Over the course of the last several decades, there has been a substantial increase in the quantity of study conducted in this area. Because of their complicated style, tweets are far more difficult to digest than other forms of digital communication. Because of the limited space available on Twitter, users are forced to resort to slang and abbreviations, which may make communication challenging. This is one of the factors that contributes to the difficulty of using Twitter. This study will be used to analyse various articles on sentiment analysis on Twitter, and in the process, we will provide a more general machine learning and Python-based approach to the field of sentiment analysis research.

Figure 1: Process flow diagram

No. of Pages : 14 No. of Claims : 4

The Patent Office Journal No. 08/2023 Dated 24/02/2023 12641

Published Patent





R. C. Patel Institute of Technology
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Department Activities



Constitution Day Celebrated

The Department of Computer Engineering at R. C. Patel Institute of Technology organized Constitution Day to create awareness about the Indian Constitution among students. As part of this initiative, a Poster Presentation Competition and an expert lecture on the Constitution of India were conducted on 26 November 2022.

A total of 60 students participated in the poster presentation, with 29 teams presenting posters on important constitutional topics such as Fundamental Rights, Directive Principles of State Policy, Fundamental Duties of Citizens, Constitutional Amendments (42nd, 44th, 101st), Article 370, the Executive, Legislature, and the powers of the President and Governors. The competition provided students with an excellent platform to showcase their knowledge and presentation skills at the institutional level.

The event was formally inaugurated by the Director, Dr. J. B. Patil, in the presence of the Head of the Department of Computer Engineering, Dr. Nitin Patil, along with faculty members Dr. Amruta Bhandari, Prof. Dushyant Potdar, and Prof. Pallavi Agrawal, as well as teaching and non-teaching staff.

The poster presentations were evaluated by Dr. Tushar Javre and Prof. Rahul Patil. Among the participating teams, the teams of Sejal Sarnaik & Janhavi Ahirrao, Reena Masure & Disha Patil, and Poonam Devre & Sanika Joshi were declared winners.

The expert lecture was delivered by Prof. Ashish Patil, who explained the significance of the Constitution, the Preamble, and key concepts such as "We, the People of India," Sovereignty, Democracy, Socialism, and Secularism, highlighting their relevance in modern society.





R. C. Patel Institute of Technology
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Department Activities



Tech Hunt 2022

The Department of Computer Engineering at R. C. Patel Institute of Technology organized Tech Hunt 2022 on 12 December 2022 as a technical competition aimed at **enhancing problem-solving** and analytical skills among students. The event was open to students from all branches, with **75 teams comprising a total of 300 students participating enthusiastically**.

Tech Hunt 2022 consisted of four competitive rounds, including **Quiz, Treasure Hunt, Brainstorming, and Surprise Rounds**. After a rigorous evaluation process, the **teams Adios, Errorless, and Creative Minds** were selected as the winners of the competition. The first prize was awarded to Tanmay Rane, Parth Vani, and Gourav Wagh, while the second prize was secured by Reena Bhamre, Kajal Patil, and Swati Dudhane. The third prize was jointly awarded to Pranav Rande, Ketan Wagh, Manjunath Choudhary, and Prasannata Jain.

The competition provided students with an excellent opportunity to demonstrate their technical skills, teamwork, and creativity at the institutional level. The event was organized under the guidance of **Dr. Nitin Patil**, Head of the Department of Computer Engineering, with coordination by **Prof. Ashish Patil**, and was successfully supported by faculty members, non-teaching staff, and student volunteers including Shivang Vora, Shubham Vora, Tanuj Kukreja, Shreya Shinde, Rohan Badgujar, Mangesh Sonawane, Shrutika Sharma, and Hardik Parihar.

The initiative was highly appreciated by the **Director Dr. J. B. Patil**, Vice Director **Dr. P. J. Deore**, Student Welfare Officer **Dr. Amruta Bhandari**.





R. C. Patel Institute of Technology
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Students Achievements



First At Zonal level Avishkar 2022

Mr. Tejas Shimpi

A B.Tech student, has Secured a First place in zonal level Avishkar-2022 (Research Competition) held on 10th December 2022

Mr. Tanmay Chavan

A T. Y. B.Tech student, has successfully participated in SUNHACKS-2022, an international-level hackathon organised by the SCHOOL OF COMPUTER SCIENCE & ENGINEERING, SANDIP UNIVERSITY NASIK. From 10th November 2022 to 12th November 2022.



SUNHACKS - 2022



Avishkar 2022

Mr. Pruthviraj Sharma

A S.Y B.Tech student, has participated in the institute level Avishkar-2022 (Research Competition) held at R.C.Patel Institute of Technology, Shirpur on 19th November 2022



R. C. Patel Institute of Technology
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Students Achievements



Front End Development - HTML

Ms. Anjali Pawar

A B.Tech student, **completed** a free online course, **"Front End Development-HTML,"** Provided by **Great Learning Academy.**



Data Science with Python

Ms. Kajal Patil

A S. Y. B.Tech student, **completed** a free online course, **"Data Science with Python,"** Provided by **Great Learning Academy.**





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