SES
SHIRPUR EDUCATION SOCIETY

R. C. PATEL INSTITUTE OF TECHNOLOGY

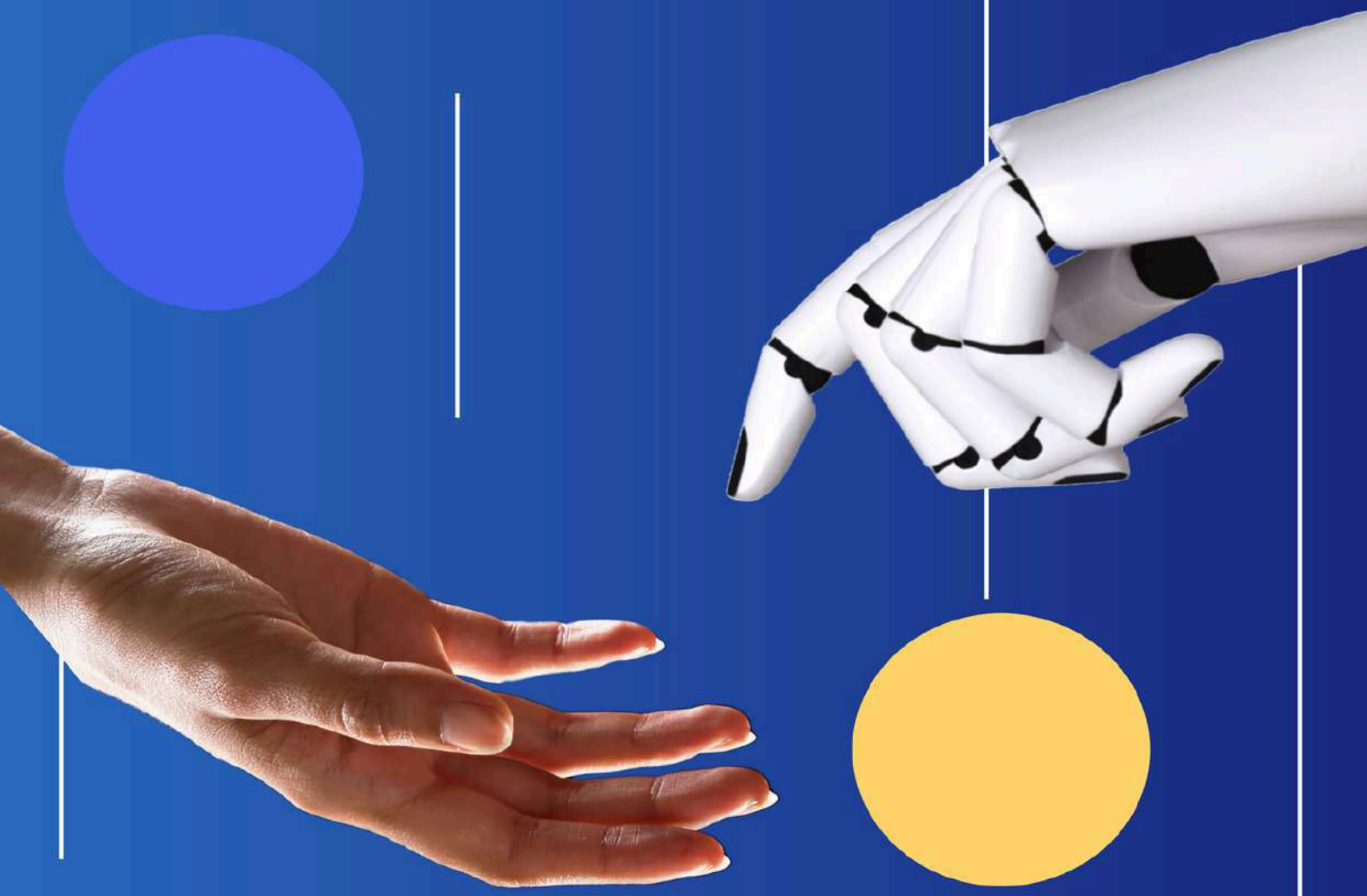
An Autonomous Institute

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

www.rcpit.ac.in

R. C. Patel Institute of Technology
An Autonomous Institute

Vision of the Institute

To become a leading Institute in Technical education fostering innovation, research, ethical values, and sustainable development for the betterment of society.

Mission of the Institute

To impart high quality Technical Education through:

M1. Innovative and Interactive learning process and high quality, globally recognized instructional programs.
M2. Fostering a collaborative scientific temper among students with ethical responsibility towards the society.
M3. Preparing students from diverse backgrounds to have aptitude for employment, entrepreneurship and research with a spirit of Professionalism.
M4. To contribute to nation's sustainable development.

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,
Prof. Dr. Jayantrao 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. Nitin N. Patil
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. Dr. Dharmaraj R. Patil
Editor
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



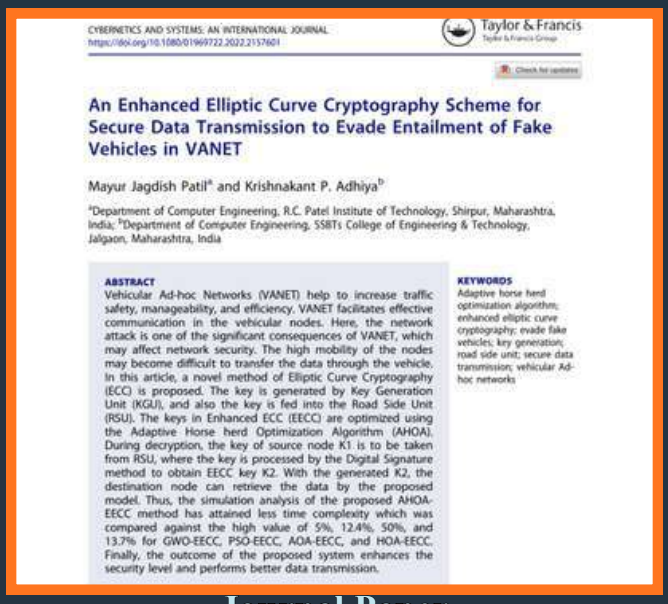
4th Springer International Conference

Mr. Sandip Sonawane

Participated in the 4th springer international conference on data engineering & applications jointly organised by School of information technology Rajiv Gandhi Proudyogiki 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



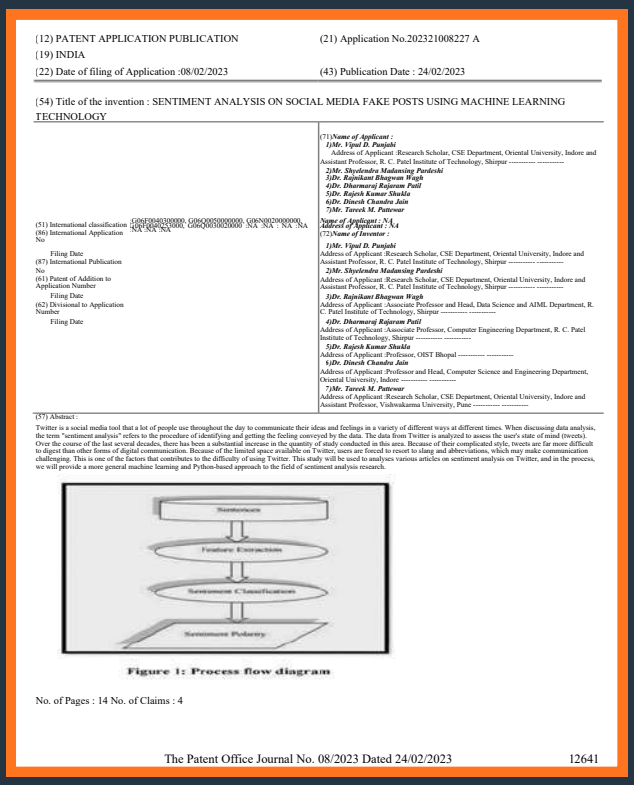
4th Springer International Conference

Ms. Puja Dipak Saraf

Participated in the **4th Springer International Conference** on Data Engineering & Applications jointly organized by School of Information Technology, Rajiv Gandhi Proudyogiki 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



(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/02/2023

(21) Application No.202321008227 A
(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: G06F0040300000, G06Q0050000000, G06N0020000000, G06F0040220000, G06Q0030020000
(86) International Application No: NA NA NA
Filing Date
(87) International Publication No
(61) Patent of Addition to Application Number
Filing Date
(62) Divisional to Application Number
Filing Date

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2)Mr. Shyelendra Madansing Pardeshi
3)Dr. Rajnikant Bhagwan Wagh
4)Dr. Dharmaraj Rajaram Patil
5)Dr. Rajesh Kumar Shukla
6)Dr. Dinesh Chandra Jain
7)Mr. Tareek M. Patewar
Name of Applicant : NA
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2)Mr. Shyelendra Madansing Pardeshi
Address of Applicant :Research Scholar, CSE Department, Oriental University, Indore and Assistant Professor, R. C. Patel Institute of Technology, Shirpur ---------- ----------
3)Dr. Rajnikant Bhagwan Wagh
Address of Applicant :Associate Professor and Head, Data Science and AIML Department, R. C. Patel Institute of Technology, Shirpur ---------- ----------
4)Dr. Dharmaraj Rajaram Patil
Address of Applicant :Associate Professor, Computer Engineering Department, R. C. Patel Institute of Technology, Shirpur ---------- ----------
5)Dr. Rajesh Kumar Shukla
Address of Applicant :Professor, OIST Bhopal ---------- ----------
6)Dr. Dinesh Chandra Jain
Address of Applicant :Professor and Head, Computer Science and Engineering Department, Oriental University, Indore ---------- ----------
7)Mr. Tareek M. Patewar
Address of Applicant :Research Scholar, CSE Department, Oriental University, Indore and Assistant Professor, Vishwakarma University, Pune ---------- ----------

(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 (tweets). 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 analyses 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

Mr. Vipul D. Punjabi

With **Mr Shailendra Madansing Pardeshi, Prof. Dr. Rajnikant Bhagwan Wagh and Prof. 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.**



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, **Prof. Dr. Jayantrao B. Patil**, in the presence of the Head of the Department of Computer Engineering, **Prof. Dr. Nitin Patil**, along with faculty members **Prof. Dr. Amruta Bhandari**, **Mr. Dushyant Potdar**, and **Ms. Pallavi Agrawal**, as well as teaching and non-teaching staff.

The poster presentations were **evaluated by Prof. Dr. Tushar Jaware** and **Mr. 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 Mr. 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 **Prof. Dr. Nitin Patil,** Head of the Department of Computer Engineering, with coordination by **Mr. 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 Prof. Dr. Jayantrao B. Patil**, **Vice Director Prof. Dr. Pramod J. Deore**, Student Welfare Officer **Prof. Dr. Amruta Bhandari.**





R. C. Patel Institute of Technology
An Autonomous Institute

Students Achievements


Dr. Babasaheb Ambedkar Technological University, Lonere
State Technical University, Maharashtra Act No. XXIX of 2014

AVISHKAR 2022

Certificate of Excellence

This certificate is proudly presented to

Mr./ Miss. Shimpi Tejas Prakash

of R.C. Patel Institute of Technology, Shirpur

for securing first / second place in zonal level Avishkar 2022 held at

SSVPS Bapusaheb Shivajirao Deore College of Engineering

on 10th December 2022.

Category: UG/ ~~PG/ PPG/ Teachers~~

Descipline: CML

Dr. Rajkumar Sirsam, Observer | Prof. Sangeeta Rajput, Coordinator | Prof. Vinod Shinde, Coordinator

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 **12 th November 2022.**


SANDIP UNIVERSITY

AN INTERNATIONAL LEVEL HACKATHON

SUNHACKS-2022

esds

Certificate of Participation

10th - 12th November 2022

This is to certify that

Mr. / Ms. / Tanmay Nandu Chavan

has Successfully Participated in SUNHACKS-2022, AN INTERNATIONAL LEVEL HACKATHON

organized by SCHOOL OF COMPUTER SCIENCE & ENGINEERING, SANDIP UNIVERSITY, NASHIK

From 10th November 2022 to 12th November 2022.

Dr. Anand Rajawat | Dr. Pawan Bhaladhare | Dr. Amol Potgantwar | Dr. Prof. Anil Maheshwari | Dr. Rajendra Sinha | Mr. Pravin Somani

SUNHACKS - 2022


Dr. Babasaheb Ambedkar Technological University, Lonere

AVISHKAR 2022

Certificate

This is to certify is presented to

Sharma Pruthviraj Sanjay

for participating in Institute level **Avishkar 2022** (Research Competition) held at *R. C. Patel Institute of Technology, Shirpur* on 19th November 2022.

Participation level: UG

Discipline : Engineering & Technology

Dr. T. H. Jaware, Institute Coordinator, R. C. Patel Institute of Technology, Shirpur | Prof. Dr. J. B. Patil, Director, R. C. Patel Institute of Technology, Shirpur

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.**



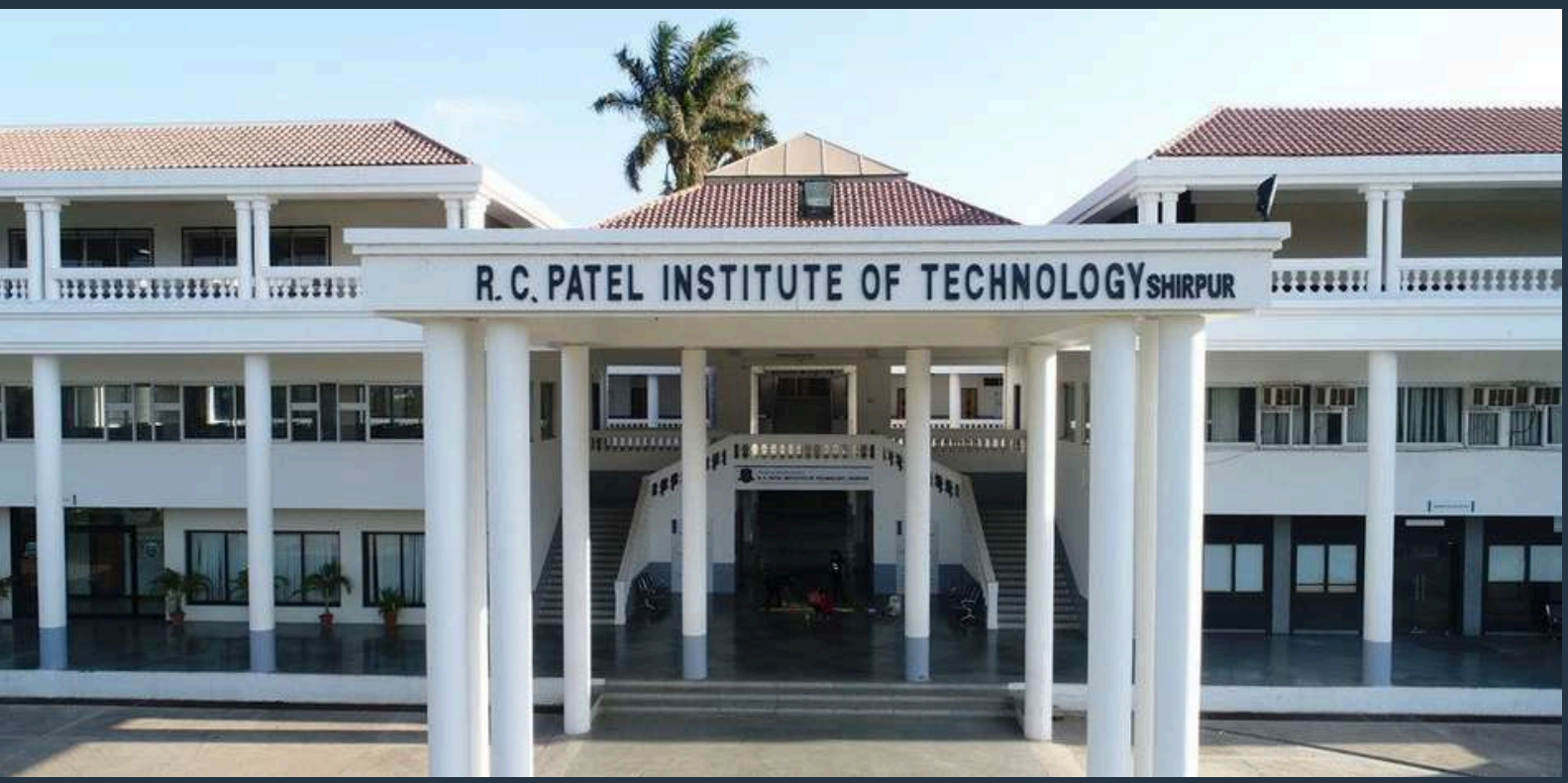
Data Science with Python

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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