

## Ramdeobaba University Nagpur

### Association for Computing Machinery (ACM) Student Chapter

#### RBU ACM Student Chapter

##### About ACM

ACM, the Association for Computing Machinery, is the world's largest educational and scientific society, uniting computing educators, researchers and professionals to inspire dialogue, share resources and address the field's challenges. ACM strengthens the profession's collective voice through strong leadership, promotion of the highest standards, and recognition of technical excellence. ACM publishes, distributes and archives original research and first hand perspectives from the world's leading thinkers in computing and information technologies that help computing professionals negotiate the strategic challenges and operating problems of the day.

The Association for Computing Machinery was founded as the Eastern Association for Computing Machinery at a meeting at Columbia University in New York on September 15, 1947. Its creation was the logical outgrowth of increasing interest in computers as evidenced by several events, including a January 1947 symposium at Harvard University on large-scale digital calculating machinery.

##### RCOEM ACM Student Chapter Installation

The Institute ACM Student Chapter established on 5th October 2018. Dr. U.A. Deshpande, Chair, ACM Professional Chapter Nagpur graced the event as the Chief Guest. The inauguration ceremony was presided over by Dr. S.D. Mohgaonkar, Dean, Second Shift, RCOEM, Dr. M.B. Chandak, Head, Department of CSE and Prof. D. R. Naidu, ACM Student Chapter Head, RCOEM.

On this occasion the institute organized an hands-on session on “Understanding Digital and Mobile Forensics” was conducted by experts Mr. Tanmay Dixit and Mr. Paresh Chitnis. The participants learnt about various techniques used in digital forensics followed by practical orientation. A total of 46 students participated in the workshop. The event was conducted successfully and received a positive response from the students.



Inaugural ceremony of the ACM Student Chapter installation

## Guest lecture arranged for students under ACM chapter India

Dr. Sachin Lodha, Principal Scientist, Research and Development, TCS, Pune delivered a talk on "Privacy—Challenges and Opportunities" on 24<sup>th</sup> March 2017.



*Dr. Sachin Lodha delivering a talk on "Privacy—Challenges and Opportunities" at Ramdeobaba college MBA Auditorium*

**Recent Activities under CSI and ACM Chapter (Session 2018-19):**

<b>Date</b>	<b>Name &amp; affiliation of the expert/speaker</b>	<b>Topic</b>	<b>Whether Industry /Institute</b>	<b>No. of Students Participated</b>
5/09/2018	Mr.Tanmay Dixit Mr.PareshChitnawis CPAG, Nasik.	Digital Forensic	Industry	For CS,IT MCA students 60
2/2/2019 3/2/2019	Mr.AmitTodkar Senior Architect , Persistent Systems.	“Problem Solving”	Industry	CSE third year 65
20/3/2019	Miss. IshaMujumdar Cyber Security Analyst, Prevoyance Cyber Forensic Pvt. Ltd. Nagpur	Network Security & Intrusion Detection	Industry	Final Year student 20
14/05/2019	Mr. Aditya Sharma Google DSC Lead ,RCOEM	Augmented Reality	Institute	Second and Third Year



***ACMIndiaCelebrationofWomeninComputingAICWiC2020 A Virtual Event - 5th September, 2020***

ACM India celebration of women in computing –a virtual event was organized by ACM-W India, ACM Nagpur Professional Chapter in association with ACM Nagpur Student Chapter of Yeshwantrao Chavan College of Engineering, Nagpur, Shri Ramdeobaba College of Engineering and Management, Nagpur, Priyadarshini College of Engineering, Nagpur and

Persistent Systems Ltd. on 5<sup>th</sup> September, 2020 under the theme “Covid 19: Innovation in IT”. Due to the current pandemic, the event was organized in virtual mode on the online platform zoomwebinar. The objective of AICWiC 2020 was to provide an explicit platform for women in technology to showcase their innovation and ideas and motivate others to take up the challenge and help the nation in becoming Independent technologically during these tough times.

S.No.	Event	Date	Level (State/National/International)	No. of students participated
1.	ACM-W India Celebration of women in computing AICWiC2020	5th Sept 2020	International	300
2.	Installation Ceremony under Compusys	12th November 2020	Department	110
3.	Coding Contest under ACM chapter	12th November 2020	Department	90

### ACM India Celebration of Women in Computing AICWiC 2020





The objective of AICWiC 2020 was to provide an explicit platform for women in technology to showcase their innovation and ideas and motivate others to take up the challenge and help the nation in becoming Independent technologically during these tough times. The inaugural ceremony began with words by Dr. Mukta Paliwal Technical Expert of Persistent Systems.

The keynote speaker was Prof. Reyyan Ayfer, Vice-Chair, ACM-W & Professor, Bkent University, Turkey.

Poster Presentation Competition was part of Virtual Event for celebration of Women in Computing by ACM India. The competition was specially organized for UG/PG girl students of CS/CE and IT branches to boost innovative ideas. There were total three round in poser presentation competition. We got good response from various reputed institutes of India, total 105 teams registered for poster presentation competition.

The winners were:

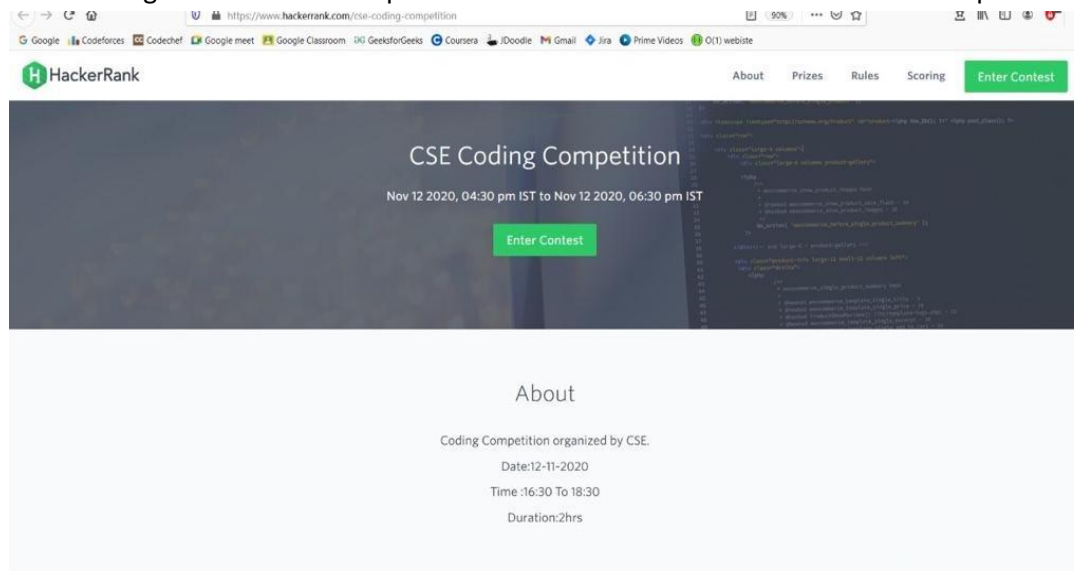
Rank	Name of Student	Project Title	Institute Name
1	Soundarya Krishnan	Network Community Analysis based enhancement of Online Discussion forums	BITS Pilani, Goa Campus
2	Sona S	Technovid 2020	Thiagarajar College of Engineering, Madurai
3	Shradha Sehgal	Sab Jeevika: Enabling job search for the deprived sector	International Institute of Information Technology, Hyderabad



## Winners with organizing Committee of AICWiC 2020

### 2]Coding Competition

A Competitive Coding Competition was organized on 12th November 2020 at 4:30 pm on HackerRank. The competition was of 2 hrs . Competition was intended for 2<sup>nd</sup> and 3<sup>rd</sup> year students. Around 90 students registered for the competition.26 students were able to solve 3 or more questions.



The winners were:

- 1.Rohit Doshi (3rd year shift 1)
- 2.Neha Pandey (2nd year shift 1)
- 3.Anant Loiya (3rd year shift 1)

## GUEST LECTURE ON AI AND CYBER SECURITY

The Computer Society of India (CSI) RCOEM Student Chapter organized a Guest Lecture on ‘Artificial Intelligence and Cyber Security’ on 13<sup>th</sup> March 2021. The guest speaker was Dr. Rizwan Ahmed who is the Chief Technology Officer at DelaPlex. His specialties include Mobile and Digital Forensics, Cyber Security, Artificial intelligence, Mobile Application Development and many more. During his experience in the IT industry for almost two decades he has worked as a designer, developer and project manager.

The lecture was conducted on Google Meet and was attended by around 150 students and faculty of the Department of Computer Science and Engineering.

The guest speaker was heartily welcomed by Dr. Manoj B. Chandak (HOD, CSE) and Prof Devishree Naidu.

Dr. Ahmed began the session by quoting the words of well-known American professor and leading computer security expert, Eugene Spafford: *“The only system which is truly secure is one which is switched off and unplugged, locked in a titanium lined safe, buried in a concrete bunker, and is surrounded by nerve gas and very highly paid armed guards. Even then, I wouldn't stake my life on it.”* He explained how security is extremely difficult to achieve in the current scenario.

During the lecture, Sir discussed cybersecurity and why it is being extensively researched and worked upon in the past decade. He explained how in cyber crimes the computer can be used as a target, weapon or as an accessory. Sir also revealed major findings globally that were observed in recent studies – growing threat to national security, increasing threats in online services and emergence of a sophisticated market for software flaws.

Sir then went on to introduce the term Artificial Intelligence. He explained its many forms that are in use today, the 4 broad categories of AI and how the growth of AI in recent times was mainly due to the reason that it could solve more complex problems with reduced cost.

In the second half of the lecture, he introduced the fascinating concept of using AI to deal with Cyber Security issues with great efficiency and accuracy. Sir insisted on having the knowledge and technology to not only detect cyber attacks but to prevent them too by using various

cyber defense methods. He explained that cyber defense for the future will require augmentation of traditional cyber tools to include AI/ML security tools that model both ‘good’ and ‘bad’. The more the time taken to detect a breach, the greater is the cost to recover from the breach. Hence, time is of essence in cyber defense.

Sir concluded the lecture by briefing on the challenges faced by AI in cyber defense and the research being done in the field of ‘Defensive, Offensive and Adversarial AI’. He emphasized the need of significant workforce with deep domain knowledge in cyber security and the use of AI to extract good data to analyze potential threats.

The screenshot shows a Zoom meeting interface. The main content is a presentation slide with the following text:

- RCOEM** (Rishi Ramdeo Baba College of Engineering and Management, Nagpur)
- SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT**
- Department of Computer Science and Engineering
- WELCOMES YOU**
- CSI RCOEM Student Chapter Presents
- Guest Lecture On AI & Cybersecurity**
- In Association with ACM Date: 13 March, 2021

The slide also features logos for RCOEM, Shri Ramdeo Baba College, and the Association for Computing Machinery (ACM). The Zoom interface shows a list of participants on the right, including 'You', 'Dr. Rizwan Ah...', and 'B-66-Tejas Deo'. The bottom of the interface shows standard Zoom controls like 'Turn on camera', 'Raise hand', and 'Turn on captions'.

The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "AI- The Key to Scaling Cyber Defence".

The slide contains the following text:

- The edge in Cyber Defence is speed. AI is transforming Cyber Defence.
- This is because you move from detection, manual reaction and remediation towards an **Automated Remediation**, which organizations would like to achieve in the next three or five years.

Below the text are three donut charts illustrating utilization levels across three stages: Detection, Prediction, and Response.

Stage	High utilization	Medium utilization	Low utilization
Detection	12%	38%	51%
Prediction	15%	51%	34%
Response	35%	47%	18%

The slide also includes the deliaPlex logo. The Zoom interface shows a list of participants on the right, including 'You', 'Dr. Rizwan Ah...', and 'Gurjan Jayprakash Chi...'. The bottom of the interface shows standard Zoom controls like 'Raise hand', 'Turn on captions', and 'Dr. Rizwan Ahmed is presenting'.



## GUEST LECTURE ON MACHINE LEARNING AND ITS APPLICATIONS

Association of Computing Machinery (ACM) RCOEM Student Chapter organized a Guest Lecture on 'Machine Learning and its Applications' on 13<sup>th</sup> March 2021. The guest speaker was **Dr. Mukta Paliwal** who is working currently with Persistent Systems Ltd. In AI Research Lab as Technical Expert in Data Science Domain. She has 15+ experience in research and development using Machine Learning Techniques to solve Real World Problems. She has the expertise on various domains like Email Security, Healthcare, Banking and many more. She is also an AWS certified Machine Learning Practitioner.

The lecture was conducted on Google Meet and was attended by around 200 students and faculty of the Department of Computer Science and Engineering.

The guest speaker was heartily welcomed by Dr. Manoj B. Chandak (HOD, CSE) and Prof Devishree Naidu.

During the Lecture, Ma'am started with giving a brief knowledge about the topic that was going to be discussed and how the topic can be related to the life of children. The topic to be discussed in the session was "**Helping a Child Discover Personality using NLP**". She stated that how the child between the age 3-10 should not just be restricted to the academic learning but to have a option of exploring world of his choice. Ma'am then discussed about the first agenda that what were the business problems the faced and what business use case they need to solve.

She showed with the help of mockup screen how the business use case was being solved with the help of the application for the child and parent. Then ma'am discussed about what thoughts they had while designing this application and gave some brief knowledge on the Recommendation Systems. She then discussed about the process flow of the application and how Machine Learning is applied to the platform and focused more on the Personalization Engines. Ma'am then discussed about how they were storing the Personality database and how their recommendation system was offering the content to the child. Then she discussed about which algorithms were implemented in the application. She discussed about the Non-Negative Matrix Factorization, Latent Symantec Index Approach, Latent Dirichlet Allocation, Guided LDA, AWS Comprehend API and gave a brief on how these algorithms were implemented.

Ma'am then discussed the implementations Steps with the help of the demo code which helped the audience to get more knowledge about the topic. The lecture concluded by discussing what challenges were faced by them in implementing the algorithms and the Noisy Data. She then emphasized on the additional features which influenced Recommendation and the order, date, action and frequency of the content.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ACM and CSI

RCOEM Student Chapter  
*Presents*

GUEST LECTURES ON

## MACHINE LEARNING AND ITS APPLICATIONS

**Date : 13th March '21**

**Time : 11:45 am to 1:00 pm**

**Platform : Google Meet**

**[meet.google.com/wgd-uust-pcn](https://meet.google.com/wgd-uust-pcn)**



**SPEAKER**

**Dr. Mukta Paliwal**  
**Persistent Systems Ltd.**

AWS certified ML Specialist

**E-certificate will be provided for attending the session**

**Registration Link**



**<https://forms.gle/RDBUjCvdRurP57j88>**

**Contact :**

Mr. Pawan Shukla  
Student President, ACM  
Shreyas Nemani  
(M): 9423238432

**Prof. D. Naidu and Prof. S. Jain**  
ACM and CSI Student Chapter Coordinator

**Dr. M. B. Chandak**  
HOD, CSE

**RCOEM**  
Shri Ramdeobaba College of  
Engineering and Management, Nagpur

**SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT**

Department of Computer Science and Engineering

**WELCOMES YOU**

ACM RCOEM Student Chapter Presents

**Guest Lecture On ML & Its Applications**

In Association with CSI™

Date:- 13/03/2021

Devishree Rohit Naidu

REC M Mukta Paliwal is presenting G Girish Sawantkarhor K... and 95 more 12:06 PM You B

**Business Problem**

- Product for young kids to explore the world around him/her on personal device
- During the process of exploration, the child will consume some content (Image, Video, Audio, Apps etc.)
- Suggest the content that is safe, engaging, personalized as per child's interest
- Share child's interest and inclinations with parents based on child's exploration of the content
- Overall help parents understand child's interest areas in automated fashion and be able to assist the child in exploring and nurturing his personality.

Mohit Chandak

A33-Abdul Shahid Sheikh

B


B77 Shreyas Manish Ne...

Meeting details ^

Meet, people.com is sharing your screen. Stop sharing

Mute Video Chat Raise hand Turn on captions Mukta Paliwal is presenting

REC M Mukta Paliwal is presenting A 66 Romil Mahajan and 96 more 12:10 PM You B



# What we plan to do to solve it

The recommendation systems provide likelihood of a particular user consuming a particular content as used by Netflix, Amazon etc. where content/products are indexed, and explicit preference data of the user is available.

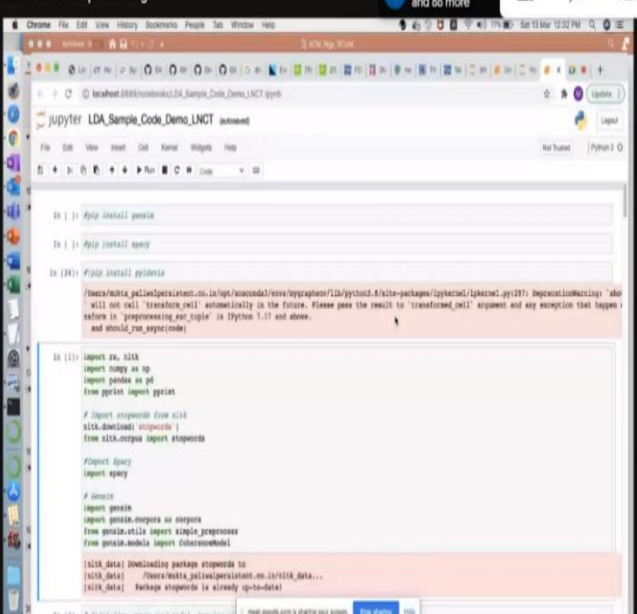
In this case we do not own and store any content and hence custom solution is built. It provides useful attributes for the user to query content from the web at run time and score the contents based on combination of algorithms.

Meeting details ^

Raise hand Turn on captions Mukta Paliwal is presenting

B 77 Shreyas Manish Nemani is presenting B B14 Shrishti Santosh Sh... and 77 more 12:32 PM You B

REC M Mukta Paliwal is presenting V Vivik Khetade and 86 more 12:32 PM You B



```

In [ ]: !pip install gensim
In [ ]: !pip install numpy
In [ ]: !pip install nltk

~/Documents/mukta_paliwalpersistant.co.in/opt/anaconda3/.../lib/python3.8/site-packages/ipykernel/ipkernel.py:287: DeprecationWarning: `np.bool` will not call `astype(bool)` automatically in the future. Please pass the result to `astype(bool)` argument and any exception that happens before the `programming_error` in IPython 7.13 and above.
  and should_run_async(code)

In [1]: import cv, nltk
import numpy as np
import gensim as gp
from pprint import pprint

# Import stopwords from nltk
nltk.download('stopwords')
from nltk.corpus import stopwords

# nltk library
import spacy

# gensim
import gensim.corpora as corpora
from gensim.utils import simple_preprocess
from gensim.models import CoherenceModel

[nltk_data] Downloading package stopwords to
[nltk_data]   /Users/mukta_paliwalpersistant.co.in/nltk_data...
[nltk_data]   Package stopwords is already up-to-date!

```

Meeting details ^

Raise hand Turn on captions Mukta Paliwal is presenting

# RCOEM

Shri Ramdeobaba College of  
Engineering and Management, Nagpur

## ACM RCOEM Chapter

presents

Guest Lecture

on

## "Multi-Scale Methods for Spatial Data Analysis"



**Speaker**

**Prof. Jaya Sreevalsan  
Nair**

- Associate Professor at IIIT, Bangalore
- Visiting Scientist at ISI, Bangalore
- Founder and head of Graphics-Visualization-Computing Lab (GVCL)
- Core Executive Committee Member of Chairperson of e-health committee which launched the E-Health Research Center (EHRC) in Aug 2015; Currently Core Executive Committee Member of the Center.

**Date: 01 November 2021**

**Time: 11:00 AM Onwards**

**Venue: Zoom App**

**Registration Open for All Faculty and Students**

<https://forms.gle/zqzVfmJfEUPm2SUj8>

### Contact Details:

Aniket Tawani 8623035730  
Bhavesh Kewalramani 9673148515



A Guest Lecture was organized on the topic “Multi-Scale Methods for Spatial Data Analysis” on 01st November 2021 at 11:00AM on Zoom. The event was organized by RCOEM ACM Chapter. The lecture was of 2 hrs. The lecture was intended for the faculty and students. The Guest Was Prof. Jaya Sreevalsan Nair. She is Associate Professor at IIIT Bangalore and an Active Member of ACM.

Professor Nair discussed different methods to carry out analysis of spatial data along with the problems faced and their possible solutions.

Recording

Devishree Naidu   Kanak Agrawal   SIMRAN RAJPUT

RCOEM\_ACM Student...   Jaya Sreevalsan Nair   Devishree Naidu   RCOEM\_ACM Student...   Kanak Agrawal   SIMRAN RAJPUT

acm India   RCOEM ACM Student Chapter Presentation   November 01, 2021

mb

## Multiscale Methods

Ensemble Methods

- Transition
  - Levels of Detail
  - Transfer Functions
- Adaptive Methods
  - Optimal Scale Determination
- Consensus Methods
  - Averaging
- Co-existence
  - Coupling

.....

**Advances in Parallel Computing & Storage Technology**

Year	Number of articles with "Multiscale Modelling" in title
1999	0
2000	20
2001	60
2002	75
2003	90
2004	110
2005	170
2006	230
2007	240

Horstemeyer, M. F. (2009). Multiscale modeling: a review. *Practical aspects of computational chemistry*, 87-135.

9

Recording

Devishree Naidu   Kanak Agrawal   SIMRAN RAJPUT

RCOEM\_ACM Student...   Jaya Sreevalsan Nair   Devishree Naidu   RCOEM\_ACM Student...   Kanak Agrawal   SIMRAN RAJPUT

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Recording

Devishree Naidu Kanak Agrawal SIMRAN RAJPUT

RCOEM\_ACM Student ... Jaya Sreevalsan Nair Devishree Naidu RCOEM\_ACM Student ... Kanak Agrawal SIMRAN RAJPUT

acm India RCOEM ACM Student Chapter Presentation November 01, 2021

## Example-1: Human Geography

Population count data mapped to geographical location using hot spot maps

Chaaney, S., Tompson, L., & Uhlig, S. (2008). The utility of hotspot mapping for predicting spatial patterns of crime. *Security journal*, 21(1), 4-28

12

Recording

Jaya Sreevalsan... Devishree Naidu SIMRAN RAJPUT Abhishek

RCOEM\_ACM Student ... Jaya Sreevalsan Nair Devishree Naidu RCOEM\_ACM Student ... SIMRAN RAJPUT Abhishek

acm India RCOEM ACM Student Chapter Presentation November 01, 2021

## Maps: Zooming In/Out ⇒ Levels of Detail

USGS National Map of Surficial Mineralogy

Rockwell, B.W., Bonham, L.C., and Giles, S.A. Home page ASTER Landstat 7 Contact

40.5222, -112.1494

Show search results for 40.5222, -11...

Unmute Start Video Security Participants 43 Polls Chat Share Screen Record Reactions Leave

Recording

Rajawade Institute of Technology  
 RCOEM, ACM Student Chapter  
 RCOEM, ACM Student Chapter Presentation  
 November 01, 2021

acm India

mtb  
 Graphics Visualization Computing Lab

Jaya Sreevalsan...  
 Devishree Naidu  
 SIMRAN RAJPUT  
 Abhishek

Information Seeking Mantra:  
**Overview** first,  
 Then **zoom** and **filter**,  
**Details** on demand.

Ben Shneiderman, 1996

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Recording

Rajawade Institute of Technology  
 RCOEM, ACM Student Chapter  
 RCOEM, ACM Student Chapter Presentation  
 November 01, 2021

acm India

mtb  
 Graphics Visualization Computing Lab

Jaya Sreevalsan...  
 Devishree Naidu  
 SIMRAN RAJPUT  
 Abhishek

View

CSCE 666 Pattern Analysis | Ricardo Gutierrez-Osuna | CSE@TAMU





Algorithm Unlock was a coding contest which contained the questions related to competitive programming. It was conducted on Hackerrank. This contest was conducted to test the logical and mental thinking of the candidates. 7 questions were divided in three sections namely easy, medium and hard. The candidates have to write the code in any programming language they were comfortable in.

**Details of Winners:**

Sr. No.	Name of Winners	Details of Winners	Price given (Money/ Specify price)
1	Siddhant Sandeep Jain	Rank/ Position: 1 Year/ Sem: II/ IV College Name: RCOEM	1000
2	Prathamesh Rajendra Rajbhoj	Rank/ Position: 2 Year/ Sem: II/IV College Name: RCOEM	500

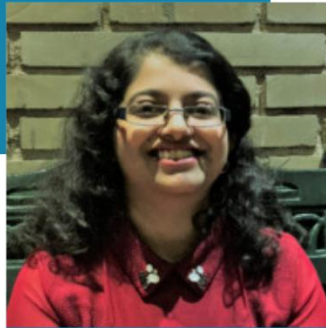


ASSOCIATION FOR COMPUTING  
MACHINERY

**RCOEM**  
Shri Ramdeobaba College of  
Engineering and Management, Nagpur

**RCOEM ACM CHAPTER PRESENTS  
CAREER CALLING – CYBER SECURITY**

**SPEAKER**



**OWNER & MD AT  
VIGILANTE CYBER FORCES**



**6 HOURS  
WORKSHOP!**

**FREE!**

FOR ALL ENGINEERING COLLEGES..

**Date:** 05 MARCH 2022 | 10:30 AM

**Venue:**

Shri Ramdeobaba College of Engineering and Management,  
Katol Rd, Lonand, Gittikhadan, Nagpur, Maharashtra 440013

CONTACT:  
SHREYAS NEMANI    BHAVESH KEWALRAMANI  
9423238432         9673148515

Limited Registrations



Miss. Isha Mujumdar owner and MD at Vigilante Cyber Forces conducted workshop on cyber security and Digital Forensic dated 5<sup>th</sup> March 2022. The Event conducted under RCOEM ACM student Chapter. Students from various Engineering colleges of Nagpur witnessed the workshop.

The Session details are as followed

- Session on Introduction to Cyber Security & Digital Forensics – 1 Hr.
- Session on Skills required for starting a career in Cyber Security – 2 Hrs.
  - Both technical and non-technical skills taught as an overview
  - Various Activity session were conducted for these skills
- Session on Different domains in Cyber Security – 2 Hrs.

- Security Management, Security Architecture, Security Analysis, Defensive Operations, Offensive Operations, Security Engineering
- Case Study of work done in each domain
- Demo conducted on work done in each domain
- Session on Education Scope – 1 Hr.
  - Formal education options in Cyber Security
  - Certification progression for career in specific domains
  - Opportunities ahead in India and abroad
  - After education, how to step into the industry

**Outcome:**

- Students Got Exposure to the latest trends and job opportunities in the popular field of cyber security.
- Students Gained knowledge of the basic, yet necessary skills for this field.
- Students Got detailed look at the various career domain in cyber security to better enable students in picking the most suitable career option for them. Also interacted directly from industry experts

**Activities ACM Chapter (Session 2022-23):**

<b>Date</b>	<b>Name Event</b>	<b>No. of Students Participated</b>
19/11/2022	Robodrive	152 students from the college and 147 among them from cs department
5/12/2022	Pair-O-Mania	80+ first year
	Codeclash	

**EVENT NAME:<PAIR-O-MANIA>**



**Date and Venue of Event:**

2nd of December, 2022 MBA Building 1/2, 2/2 Classrooms and Data Science Lab

**Name of Faculty In-Charge:** Prof. Devishree Naidu.

**Event Summary:**

We have randomly connected people in pairs and they competed together in the further rounds.

After the pairs are divided each pair had gone through the following rounds:

**1. General Trivia:** A game inspired by the Tv show KBC. The pairs which passed the last round will go for this round, where they will have questions related to technological fields. This will be time monitored.

**2. Pictionary:** Qualifiers from the General Trivia round will get two words for each person in the pair and they will have to draw it and explain the word to their partners this will also be a time-based activity.

**3. Tech Feud:** A game inspired by the Tv show Family Feud. During the registrations, questions for this survey will be floated, and our participants will act as our targeted audience for the survey. Questions related to the survey will be asked in this round and the Pair which guesses the most answered choice will be awarded points.

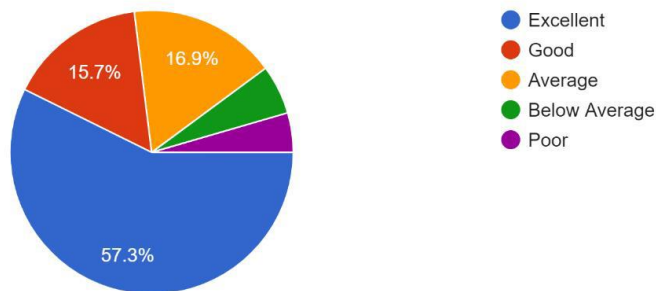
**4. Code with Santa:** Qualifiers from the Pictionary stage will then move towards Lab for a simple coding competition: Santa themed Problem statement will be given to students, who have to solve the problem within a stipulated time constraint.

**Participation Details:**

Name of event	No. of participants (Registered)	No. of participants (Attended)	No. of participants from CSE Dept	No. of participants from RCOEM	No. of participants from other colleges
Pair O Mania	170	152	147	170	0

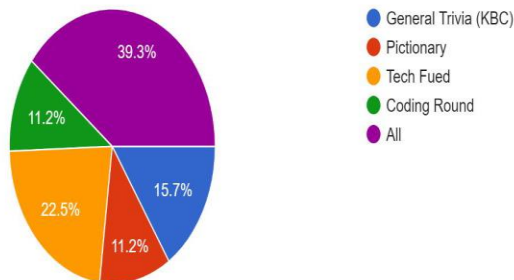
How would you rate the event 'Pair O Mania'?

89 responses



Which was your favourite round in Pair O Mania?

89 responses





**Winners of the 'Pair O Mania' Event**



**ACM Student Chapter Team**

### Detail of Winners:

Name of Event	Sr.no	Name of winners	Details of winners
Pair-O-Maina	1	Sarvesh Tiwari Isha Wele	Position : I Year/ Sem : I College Name : RCOEM
	2	Snehal Rakas Shreyash Dhengekar	Position : II Year/ Sem : I College Name : RCOEM
	3	Sahil Yadao Sanjeev Gour	Position : III Year/ Sem : I College Name : RCOEM

### ➤ EVENT NAME: **ROBODRIVE**

CSE Department, RCOEM organized the ‘ROBODRIVE’ event under ACM Student Chapter in association with the Technical Club to develop interest among students for Robotics followed by a Robotics Workshop on 19th November 2022.

**RCOEM**  
Rajwade Sanshodhan College of  
Engineering and Management, Nagpur

TECHNICAL CLUB × **acm**

PRESENTS

# ROBO DRIVE

**NO REGISTRATION FEES**  
BOTS WILL BE PROVIDED BY US  
ONLY FIRST 50 ENTRIES  
WIN EXCITING PRIZES!!!

**WHEN** 19 NOV, 2022  
10 AM ONWARDS

**WHERE** **ROBO DRIVE**  
GROUND FLOOR,  
IT BUILDING

**WORKSHOP ON APPLICATION OF ROBOTICS IN  
COMPUTER SCIENCE**  
CLASSROOM 002, IT BUILDING

FOR ANY QUERIES  
HARSHEET CHORDIYA 8830225877

TANISHQ KESWANI 7972580785

## Robot drive Activity

The 'Robodrive' Activity was conducted on 19th November 2022. The workshop was solely for RCOEM students. We received around 80+ registrations for the event.

This activity was organized in an interesting and fun way so that students gain interest and explore the field of robotics. We provided bots to students participating in the activity. In this activity, we placed cardboard boxes each worth certain points. The task given to students was to bring the boxes in the area marked in the centre of the activity zone. The aim was to gain maximum number of points in the time duration of 3 minutes.







## Workshop

After the 'Robodrive' Activity, a workshop on the topic "Application of Robotics in Computer Science" was conducted. The workshop was organised especially to increase their interest in the Robotics domain. At the end of the workshop, a small demonstration of ROS was given by Huzefa

Essaji (4th year, ECE Dept.) The students enjoyed the workshop and we received positive feedback from them.



➤ **EVENT NAME:** Code Clash

- The 'codeclash' was a coding contest conducted on 19<sup>th</sup> November 2023. The contest was solely for RCOEM students. We received around 10+ registrations for the event.
- Contest was hosted in the hakerrank platform with many languages available for contestants
- Contest was of moderate level with 6 questions in it.
- It helped students to enhance their coding skills and to evaluate their performance

## Leaderboard

All Friends Filter by

Rank	User	Score	Time	Country
1	D_39_Chirag	300.00	50:07	
1	kohadvedant7	300.00	1:06:35	
1	D48_Kushal	300.00	1:14:43	
4	singhgr_1	250.00	1:57:35	
5	kapilgattani988	200.00	20:50	
5	vedantniwari	200.00	23:19	

### Detail of ACM events in Session 2022-2023:

Name of Event	Position(Rank)	Name of winners	Details of winners
Pair-O-Maina	1.	Sarvesh Tiwari Isha Wele	Position : I Year/ Sem : I College Name : RCOEM
	2.	Snehal Rakas Shreyash Dhengekar	Position : II Year/ Sem : I College Name : RCOEM
	3.	Sahil Yadao Sanjeev Gour	Position : III Year/ Sem : I College Name : RCOEM
Code -clash	1.	Chirag Lalwani	
	1.	Vdeant Kohad	
	1.	Kushal Gujar	
Robodrive		It's a fun activity for everyone	

## One Day Workshop on "Fundamentals of Deep Learning by Nvidia"

9<sup>th</sup> March 2024

RCOEM ACM Student Chapter of Shri Ramdeobaba College of Engineering and Management, Nagpur, organised One-Day Workshop on NVIDIA Deep Learning Fundamentals dated 9<sup>th</sup> March 2024. At Digital Tower DT109 lab. The Workshop was conducted by Dr. Tausif Diwan, Assistant Professor IIIT Nagpur. Dr. Tausif Diwan, is a certified Trainer who conducted training for third year students of all branches.

The one-day workshop on NVIDIA Deep Learning Fundamentals aimed to provide participants with a comprehensive understanding of deep learning concepts and techniques, with a focus on leveraging NVIDIA technologies for accelerated training and inference.

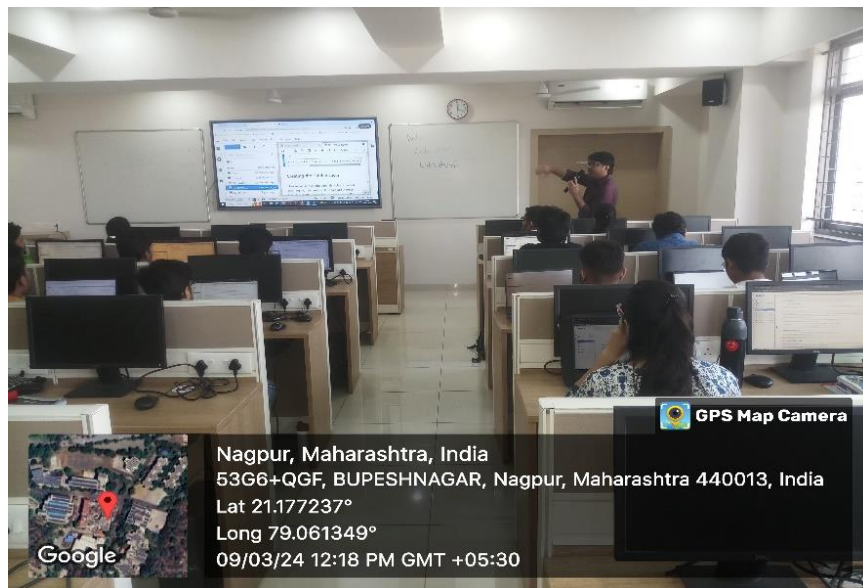
Agenda:

- Introduction to Deep Learning: Concepts and Applications
- Keynote Address: "Accelerating Deep Learning with NVIDIA GPUs"
- Session 1: Basics of Neural Networks and Deep Learning Frameworks
- Session 2: Introduction to NVIDIA GPU Architecture for Deep Learning

- Session 3: Hands-on Workshop: Implementing Deep Learning Models with NVIDIA CUDA and cuDNN
- Session 4: Optimizing Deep Learning Performance on NVIDIA GPUs
- Session 5: Case Studies: Real-world Applications of NVIDIA Deep Learning Solutions
- Q&A Session

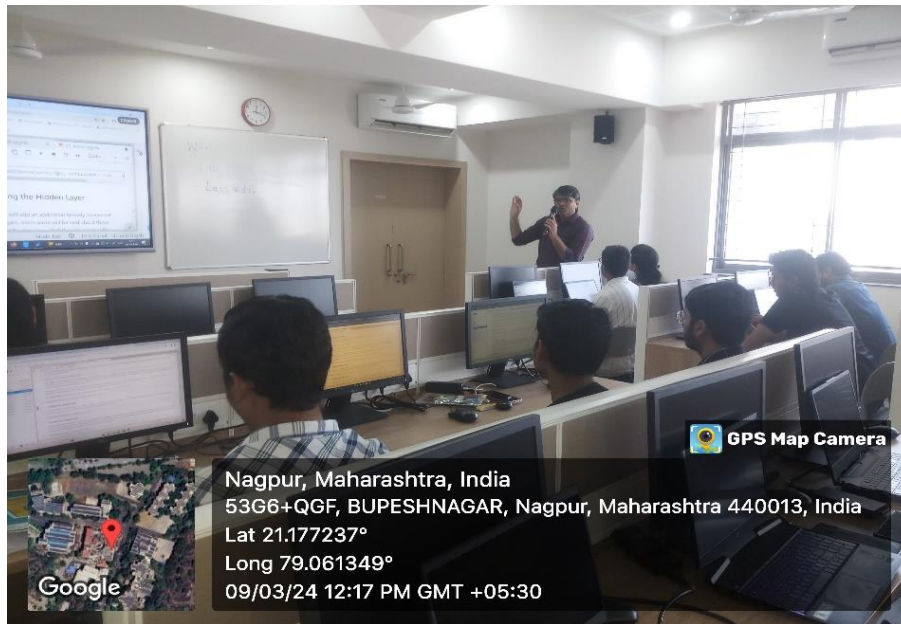
The workshop commenced with registration and a warm welcome address. The keynote address provided insights into the role of NVIDIA GPUs in accelerating deep learning tasks, highlighting the benefits of GPU acceleration for training and inference.

Sessions on the basics of neural networks, deep learning frameworks, and NVIDIA GPU architecture equipped participants with foundational knowledge essential for understanding and leveraging deep learning technologies. The hands-on workshop enabled participants to gain practical experience in implementing deep learning models using NVIDIA CUDA and cuDNN, guided by experienced instructors.

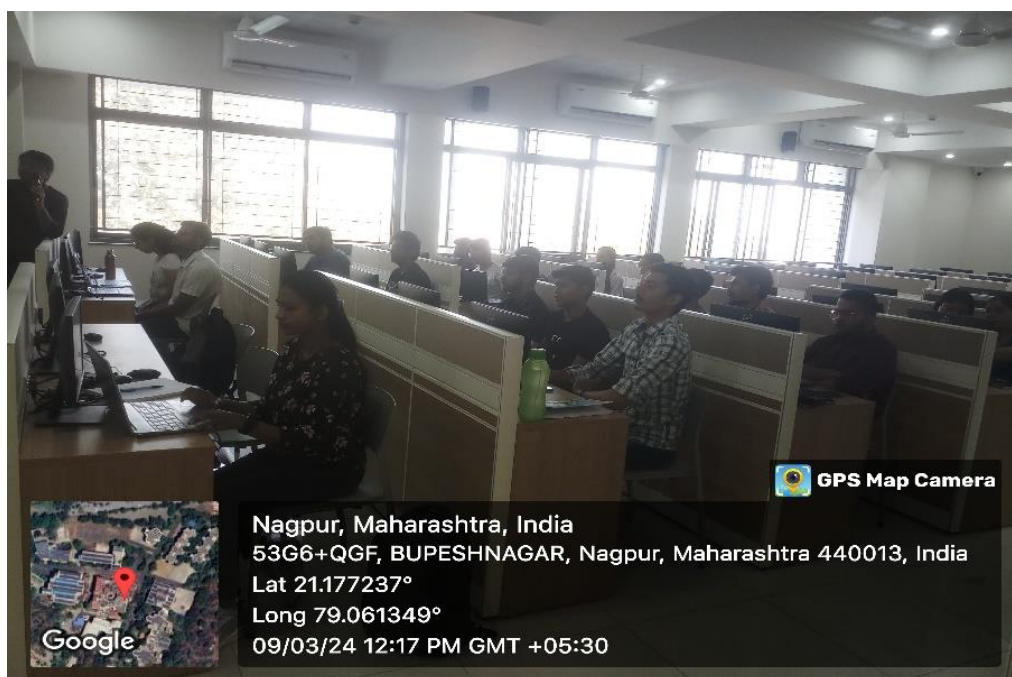


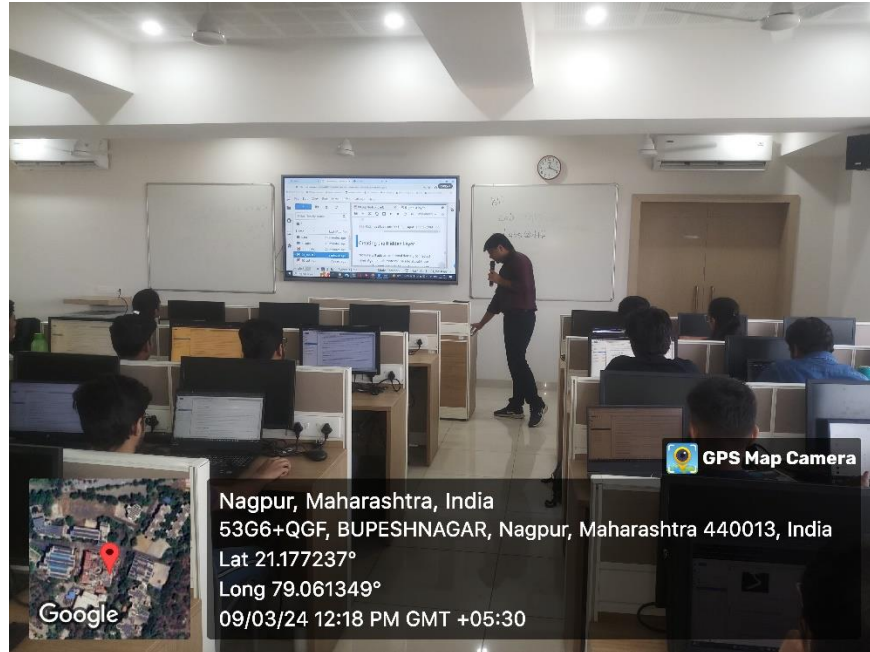
Dr. Tausif Diwan IIIT, Nagpur Delivering Training session on NVIDIA GPUs

During the lunch break, participants had the opportunity to network with peers and engage in discussions with the workshop facilitators. The session on optimizing deep learning performance on NVIDIA GPUs explored techniques and best practices for maximizing efficiency and throughput in deep learning workflows.



Real-world case studies showcased the applications of NVIDIA deep learning solutions across various domains, illustrating their impact and effectiveness in solving complex problems. The Q&A session provided participants with a platform to seek clarification on concepts, tools, and techniques discussed throughout the workshop, promoting interactive dialogue and knowledge exchange. The workshop concluded with closing remarks by the organizers, expressing appreciation to the participants, speakers, and sponsors, followed by the distribution of certificates of participation.





Participants gained a solid understanding of deep learning fundamentals and the role of NVIDIA technologies in accelerating deep learning workflows. Hands-on experience in implementing deep learning models with NVIDIA CUDA and cuDNN equipped participants with practical skills essential for leveraging GPU acceleration in their projects. Opportunities facilitated connections between participants and industry experts, fostering collaboration and knowledge sharing.

Students Received the Certification by Nvidia after submitting assignments floated during workshop.

## Summit on

### "Opportunities and Challenges for Emerging Computing Trends"

Date: February 10, 2024

The Summit on Emerging Computing Trends, organized by the Association for Computing Machinery (ACM) chapter of Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur, was held on February 10, 2024. This event aimed to explore the rapidly evolving landscape of computing technologies, discuss the challenges and opportunities they present, and facilitate collaboration among industry experts, academics, and students.



The summit commenced with two keynote addresses by distinguished industry leaders. **Mr. Rizwan Ahmed, Division Head of Digital Innovation at delaPlex**, delivered the first keynote speech. He discussed the digital revolution and its profound impact on innovation across various sectors. Mr. Ahmed emphasized the importance of embracing digital technologies to stay competitive in today's fast-paced world.



The second keynote address was delivered by **Mr. Dhiraj Motghare, Director at Global Logic**. Mr. Motghare provided insights into emerging computing trends and their implications for businesses. He highlighted the significance of technologies such as artificial intelligence, blockchain, and quantum computing in shaping the future of computing. Mr. Motghare's keynote shed light on the transformative potential of these trends and encouraged attendees to explore their applications in diverse domains.





**Mr. Dhiraj Motghare, Director at Global Logic** delivering a keynote emerging computing trend and their implications for businesses

Following the keynote addresses, a panel discussion was held featuring esteemed experts from academia and industry. The panelist's included:

1. Dr. Mukta Paliwal, Associate Director of Data Science at Novartis.
2. Mr. Kalpit Bhawalkar, Practice Head of Artificial Intelligence at Konverge.ai.
3. Mr. Tushar Joshi, Chief Architect at Persistent Systems.
4. Mr. Shrikant Ardhapurkar, Co-founder of Crypto Forensic Technologies, Nagpur.
5. Ms. Shivali Chandel, HR Manager at Gocomet.



The panellist's on the Dias along with Director School of CSE

The panel discussion covered a wide range of topics related to emerging computing trends. Dr. Mukta Paliwal shared insights into the role of data science in driving innovation and informed decision-making in the pharmaceutical industry. Mr. Kalpit Bhawalkar discussed the applications of artificial intelligence in optimizing business processes and enhancing customer experiences.

Mr. Tushar Joshi provided valuable insights into architectural considerations for building scalable and resilient computing systems.



Mr. Tushar Joshi, Chief Architect at Persistent Systems

Mr. Shrikant Ardhapurkar shared his expertise in cybersecurity and discussed the importance of implementing robust security measures to protect sensitive data and mitigate cyber threats.

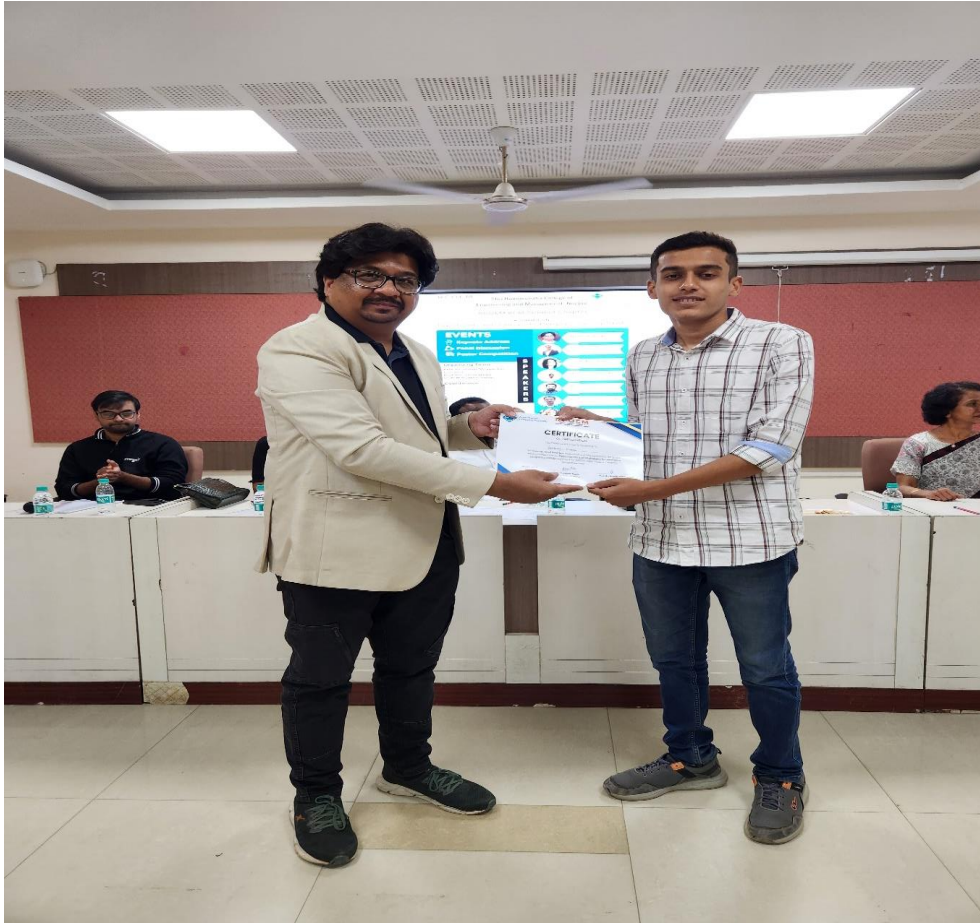


Mr. Shrikant Ardhapurkar Co-founder of Crypto Forensic Technologies, Nagpur putting his views on security Robustness

Ms. Shivali Chandel highlighted the significance of talent acquisition and talent management in the context of emerging computing trends. She discussed strategies for attracting and retaining top talent in the highly competitive tech industry.

The panel discussion was interactive, with attendees actively participating by asking questions and sharing their perspectives. The diverse backgrounds and expertise of the panellist's contributed to a rich and insightful discussion, providing attendees with valuable takeaways.

An online poster presentation competition was organized to showcase research and innovative ideas related to emerging computing trends. Participants from various departments of undergraduate courses presented their work in Opportunities and Challenges for Emerging Computing Trends.



Mr. Dhiraj Motghare, Director at Global Logic presenting Certificate to winner of Poster competition conducted by RCOEM ACM student Chapter



Dr. Mukta Paliwal, Associate Director of Data Science at Novartis & Mr. Tushar Joshi, Chief Architect at Persistent Systems Presenting certificates to Winners

The summit concluded with an award ceremony to recognize the outstanding contributions of participants in the poster presentation session. Trophies and certificates were awarded to the winners, acknowledging their excellence and dedication to advancing the field of computing. The award ceremony provided a moment of celebration and recognition for the participants' hard work and achievements.

The event's success was attributed to the dedication and hard work of the organizing team which includes Prof. Chetna Thaokar, Prof. Amit Pimpalkar, Prof. Supriya Gupta Bani, Prof. Jolly Nikahde, Prof. Snehal Laddha, Prof. Punam Khandar led by Dr. Urmila Shrawankar, Convenor, Prof. Devishree Naidu, In-charge of the ACM Student Chapter at RCOEM.

Ramdeobaba University

**RBU ACM STUDENT CHAPTER EVENTS**

**TECNOFRENZY 2.0**

Date: 17th January 2025 TECNOFRENZY 2.0 An event focusing on Algorithmic Assembling skill conducted to judge the problem-solving abilities.



**Student Participation at TECNOFRENZY 2.0**

## Workshop on

### *"Data Science Unveiled," Foundations and Pathway to Mastery:*

25th January 2025, Nagpur the RBU ACM Student Chapter in association with ACM Nagpur professional chapter successfully organized Workshop on "Data Science Unveiled," Foundations and Pathway to Mastery an insightful event that garnered enthusiastic participation from 250 students. The event aimed to provide a comprehensive introduction to the exciting field of Data Science. The event commenced with a warm welcome of our esteemed guests. Initially Dr. Urmila Shrawankar, Director School of CSE, felicitated Dr. Kishor Bhoyar Sir. Dr. Bhoyar is presently working as a Professor in the Department of Information Technology at Yashwantrao Chavan College of Engineering Nagpur. He has completed his Ph.D. in Computer Science & Engineering at VNIT Nagpur in 2010 and is honoured as a Senior Member of the Association for Computing Machinery (ACM). Dr. Bhoyar has an impressive publication record, having authored more than 50 research papers in reputed national and international journals and conferences.



Felicitation of Mr. Dhaniram Kshirsagar, Solution Architect, Persistent System Ltd.

And Dr. Kishor Bhoyar, ACM Senior Member at workshop on 25th Jan 2025





Session by Dr. Kishore Sir.

He has also published three copyrights and two patents for his work in the areas of email mining, edge computing, and image processing. Additionally, he has worked on a collaborative research project on Neonatal Health Assessment involving Harvard School of Public Health, YCCE Nagpur, and DMIMS Wardha. With over 30 years of teaching experience at the undergraduate and postgraduate levels, Dr. Bhoyar is an approved supervisor for Ph.D. in Computer Science & Technology at RTM Nagpur University, having guided nine students to completion. He has also organized numerous training programs, workshops, and conferences for faculty, students, and staff at both the national and local levels. Felicitation of Dr. Kishor Bhoyar, ACM Senior Member at workshop on 25th Jan 2025 Dr. Kishor Bhoyar delivered a captivating lecture that provided a comprehensive overview of Data Science. He began by elucidating the fundamental concepts of Data Science, emphasizing its role in extracting meaningful insights from raw data. He then discussed the current state of Data Science, highlighting the latest advancements and emerging trends in the field. The lecture delved into the core concepts of Machine Learning, covering key topics such as supervised learning, unsupervised learning, and reinforcement learning. Dr. Kishor Sir illustrated these concepts with real-world examples, making the session engaging and easy to

understand. Furthermore, he explored the diverse application areas of Data Science, ranging from healthcare and finance to marketing and social media. He highlighted the transformative impact of Data Science in various industries and its potential to revolutionize the future. The interactive session that followed the lecture provided an excellent platform for students to engage with Dr. Kishor Sir and ask clarifying questions. His insightful responses and valuable guidance further enriched the learning experience for the participants. Session by Dr. Kishor Sir.

Dr. Kishore Sir's lecture captivated the audience with a comprehensive overview of data science, including machine learning concepts illustrated with real-world examples. Students actively engaged with the material. In the second session, Dr. Preeti Voditel, HOD CSE-ET felicitated Mr. Dhaniram Kshirsagar. Mr. Kshirsagar is a Software Solutions Architect at Persistent Systems, with 19.5 years of industry experience. He has designed and developed enterprise-level, highly available, reliable, and scalable systems. Mr. Kshirsagar's areas of specialization include the telecom domain, with expertise in OMA MLP, SUPL, OpenGIS OpenLS, Qualcomm gpsOne, AGPS, and various SS7 protocols. He has also worked extensively with Java/J2EE, Spring, JAIN SLEE, Apache JGroups, SOAP, XML, GWT, C++, and Android app development. Prior to his current role at Persistent Systems, Mr. Kshirsagar has worked with Accelerate, demonstrating his breadth of experience in the technology industry.



Students participating in an interactive activity by Mr. Dhaniram Kshirsagar from Persistent Systems Ltd.



### **Data Science Unveiled – A packed lecture hall.**

This engaging session aimed to provide students with an in-depth understanding of the industry's expectations and the potential opportunities within the domain. An interactive activity attendees understanding of key AI concepts. The large turnout reflects the high level of student interest in data science and its potential applications. The event provided a valuable platform for learning and networking.



Members from ACM Nagpur Professional Chapter at workshop on "Data Science Unveiled" team on 25<sup>th</sup> Jan 2025, RCOEM, Nagpur

*Members from Persistent Systems. Dr. Ravindra Keskar, Dean Associate (IPR and Innovate), VNIT Nagpur. Mr. Laxman Potbhare, Principle Engineer, Persistent Systems. Mr. Abhijeet Bulke Senior Architect, Dr. P. Assudani RCOEM.* A commemorative photograph featuring guest speakers, organizers, and faculty members. The photo captures the collective effort and success of the event.

Students' active participation demonstrated their growing interest in the field. Students participating in an interactive activity by Mr. Dhaniram Kshirsagar from Persistent Systems Ltd. Later an interactive quiz further engaged the participants, testing their grasp of key AI concepts. Students actively participated, showcasing a growing interest in data science. The registration Qr code and contact details were available on the screen. Students were feeling free to reach out if they have any questions or doubts. Data Science Unveiled – A packed lecture hall. The large turnout reflects the high level of student interest in data science and its potential applications.