Department of Information Technology

InTegenious

Highlighting Events

- 1 week Workshop on Data Science & Artificial Intelligence

- One week workshop on C & C++ Programming

- Several other informative webinars

Student Chapters/ Associations

MMCOE ACM STUDENT CHAPTER Dept of IT
Estd. Year - 2015

ITSA
Once We Commit We Never Rollback
Est.2014
INFORMATION TECHNOLOGY STUDENT'S ASSOCIATION

MoU's with Industries

CarvingIT

SoftTech Data Securities
Build | Innovate | Contribute

cybervault
Endlessly Alert.

ATS
ATS Infotech Pvt. Ltd.

KasNet
Trusted Partner in your Growth
INDIA | USA

AgileSoft
Methodologies

Hirameki Solutions

ecoRise
Software Solutions
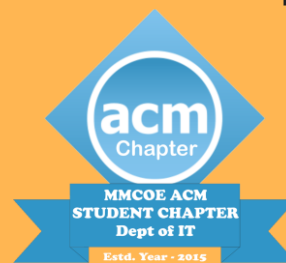
InTegenious

A biannual newsletter from the Department of Information Technology, MMCOE

Volume VIII | Issue 2 | December 2022 – May 2023

Contents

Vision of Department:

To emerge as a Centre of Excellence in education, research and innovation in Information Technology for enrichment of Society.

Mission of Department:

- **To cater IT Industry with Engineers having theoretical & practical background and competent IT skills.**

- **To pursue advanced knowledge in the field of Information Technology.**

- **To inculcate budding IT Engineers with professional and interpersonal skills.**

1. *Message from HOD*

Dear Readers,

I feel glad to introduce you to, ours second issue of volume VIII, of IT Department e-newsletter "InTegenious". In this issue we have covered almost all the activities of the department for Academic Year 2022-23 Semester-II. Major activities I would like to highlight are - FDP organized by the department on "Blockchain Technologies and Its use Cases" as well as Preliminary round of "KAVACH (Ideathon) " in association with ACM Student Chapter of MMCOE.

I appreciate the efforts taken by E-newsletter team and wish them all the best for upcoming issues.

Programme Educational Outcomes (PEO's):

PEO 01: Adequate knowledge and skills in Information Technology for implementation of complex problems with innovative approaches.

PEO 02: Inclination and technical competency towards professional growth in the field of Information Technology.

PEO 03: Ethics and value based interpersonal skills to facilitate lifelong learning and societal contributions.

- *Team InTegenious :*

Volume VIII | Issue 2 | June2022 - December 2022

Our Mentor   : Dr. Rupali M. Chopade, HOD IT.

Faculty Editor : Mrs. Shraddha Mankar, Assistant Professor, Dept. of IT.

Student Editor :   Ms. Vishvjita Savkare, (TE IT)

2. *Student Placements*

Sr. No.	Name of Student	Company Name	Package in Lacks/Year
1	Vishwajeet Deshmukh	Juspay	11.0
2	Prem Gorde	BYJUs	8
3	Amey Deshingkar	Persistent	7.8
		TCS	7.0
4	Piyush Terkar	Capgemini	7.5
		Reliance JIO	5.0
5	Aneeket Deo	TCS	7.0
6	Atharva Killekar	Hike Education	6.42
7	Kedar Khedkar	Bitwise	6.0
8	Dongare Nilesh	Fev India	5.5
9	Anushka Vaidya	Persistent	5.01
		TCS	3.36
10	Lokesh Yadav	Persistent	5.01
11	Shubham Surwase	Persistent	5.01
12	Pawar Riddhi	Persistent	5.01
		Codebin	4.5
13	Pratik Pawar	Persistent	5.01
14	Prajesh Gawhale	Reliance JIO	5.0
15	Yash Ghan	Reliance JIO	5.0
16	Aditi Deshpande	KSB Tech, Volkswagen	5
17	Anisha Kango	Volkswagen	5
18	Nayan Kacha	Volkswagen	5
19	Paneet Kumar Rai	Volkswagen	5
20	Mitali chougule	Aress Software	4.5
		Capgemini	4.25
21	Aishwarya Swami	Capgemini	4.25
22	Sharwari Akre	Capgemini	4.25
23	Aryan Hamine	Capgemini	4.25
24	Role Sharvari	Capgemini	4.25
25	Lalge Rutuja	Capgemini	4.25
26	Tikone Sourabh Baliram	Capgemini	4.25
27	Saurabh Lohokare	Capgemini	4.25
		TCS	3.36

28	Piyush Barhanpurkar	Hexaware	4.0
		Capgemini	4.25
29	Keshav Wanjale	Hexaware	4.0
30	Snehal Khodake	Hexaware	4.0
31	Aniket Darade	Einfochips	4.0
32	Bargale Vyanktesh	Startoon Labs	4.0
33	Sneha Bobde	Harbinger	4
34	Pranay Pawar	TCS	3.36
35	Vijay Jadhav	TCS	3.36
36	Ved Khedkar	TCS	3.36
37	Achal Raut	TCS	3.36
38	Pratiksha Rupde	TCS	3.36
39	Isha Kulkarni	TCS	3.36
40	Naik Tushar Kishor	SOFTHARD automation Pvt. Ltd.	3.6
41	Siddhant Jadhav	Tech Mahindra	3.5
42	Stuti Bhongale	Crave Infotech	3.5

3. *Student Achievements*

(Co-Curricular and Extra-Curricular)

Sr. No.	Name of Student	Achievement Details
1	Prajesh Gawhale	Winner of 'ET Campus Star' award
2	Aniruddha Ramane and Kaustubh Wayfalkar	Runner Up, State Level Project Competition at GMRT Khodad
3	Kedar Khedkar and Yash Ghan	Smart India Hackathon 2022 Winner with cash prize of Rs. 1 Lac
4	Mahesh Pimparkar and Aniruddha Ramane	Runner Up, DY Patil National Level Technova Competition – Cash Prize 10K
5	Kaustubh Wayfalkar and Akanksha Unde	Finalist - Smart India Hackathon 2022
6	Swarali Suryawanshi and Mahesh Pimparkar	Winner, Exploratory Data Analysis conducted by IT Department, MMCOE.
7	Mr. Atharva Dhaygude	Second place, National Level Roll Ball Senior Championship, Jammu
8	Ms. Sanika Kelkar	First Place, Khelo India
9	Mr. Utsav Rohilla	Completion of 8 MAH BN NCC Camp
10	Mr. Sameer Bobade	First Place, National level Volleyball COEP ZEST 2020, Pune
11	Ms. Neha Mahangade	Bronze Medal, West Zone Table Tennis Tournament under Khelo India
12	Mr. Abhishek Lalwani	Outstanding Achiever & Exceptional Alumni award from Spoken Tutorial IIT Bombay
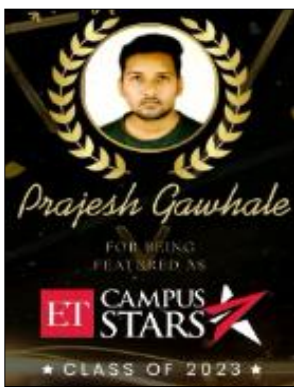
4. *Student Internships*

Sr. No.	Class	Students Name	Company Name
1	SE	Atharva Sameer Phadke	Elite Softwares
2	SE	Isha Shivaji Velankar	Elite Softwares
3	SE	Ashish Sunil Joshi	Elite Softwares
4	SE	Suraj Gafar Magdum	Elite Softwares
5	SE	Yash Mahesh Kamthe	Elite Softwares
6	SE	Anushka Prashant Phadtare	Elite Softwares
7	SE	Aditya Ramdas Kauthkar	Elite Softwares
8	SE	Sanika Sachin Kharade	Elite Softwares
9	SE	Shinde Umakant Maroti	Elite Softwares
10	SE	Devanshu Rajnish Ukey	Elite Softwares
11	SE	Hiteshbhai Pradipbhai Marathe	Elite Softwares
12	SE	Harsh Harshit Sanchaniya	Elite Softwares
13	SE	Sneha Shivaji Kothimbire	Elite Softwares
14	BE	Anisha Kango	Hack-X Security
15	BE	Pratik Pawar	Advanced Business & Healthcare Solutions India Private Limited
16	TE	Andhare Sakshi Shrikant	FunServe Solutions LLP
17	TE	Apte Mihir Vinayak	Invasystems
18	TE	Bahaddarpure Kirti Madan	Techrecruitlab Development Center
19	TE	Bakal Swapnali Rajendra	Suvidha Foundation
20	TE	Bandagale Prasad Santosh	Internsavy
21	TE	Bhosekar Shruti Makarand	EQubit Solutions LLP

22	TE	Borade Yash Dattatraya	Taqshin Tech Solutions
23	TE	Borude Swapnil Kakasaheb	Athena Automation
24	TE	Chandanshive Saifnath	Exposys Data labs
25	TE	Dakshesh Gandhe	Pentagon System and Services PVT. LTD
26	TE	Dani Pooja Pramod	Harpa Technologies Pvt.Ltd.
27	TE	Deshmukh Abhay Roshan	Codeclause
28	TE	Deshmukh Ruturaj Tatyasaheb	Sustainfy Energy
29	TE	Deshmukh Shreyash Santosh	LetsGrowMore
30	TE	Deshpande Shruti Yashodhan	VSky Solutions
31	TE	Dhere Mohit Mahendra	Harpa Technologies Pvt. Ltd.
32	TE	Gaigol Ram Manohar	Codeclause
33	TE	Gaikwad Shreyas Vijay	LetsGrowMore
34	TE	Gawade Vaibhavi Vishnu	Techrecruitlab Development Center
35	TE	Ghodgaonkar Harsh Sudhakar	FunServe Solutions LLP
36	TE	Gogawale Atharva Rohidas	Averon Infotech Pvt. Ltd
37	TE	Hande Atharva Jaywant	Codeclause
38	TE	Hrishikesh Samir Pawar	LetsGrowMore
39	TE	Kacherikar Anurag Atul	eQubit Solutions LLP
40	TE	Kadam Atharva Satish	Shunya IoT AI Research Private Limited
41	TE	Kalyani Deshmukh	Sustainfy Energy LLP
42	TE	Kamble Kshitij Gajanan	SC Soft Solution
43	TE	Kenge Om Prashant	FunServe Solutions LLP
44	TE	Khadke Tejal Bahubali	Techrecruitment Development Center

45	TE	Kokate Gauri Govind	Suvidha Foundation
46	TE	Kolharkar Shreyas Shrikant	Taqshin Tech Solutions
47	TE	Kolhatkar Rohan	Inspirit Vision LLP
48	TE	Kulkarni Anish Suhas	Funserve Solutions LLP
49	TE	Kulkarni Jayesh Narayan	SC Soft Solution
50	TE	Kulkarni Reshmi Avinash	Oasis Infobyte
51	TE	Kulkarni Rucha Mohan	eQubit Solutions LLP
52	TE	Lokhande Ajeet Ranjeet	Effocess
53	TE	Mahajan Varad Abhijit	Suven Technologies
54	TE	Mahangade Neha Nilesh	VASP Solutions LLP
55	TE	Mahesh Pimparkar	S M Software Solution Inc.
56	TE	Manav Zutshi	Sync Interns
57	TE	Mehatre Rohit Baburao	FunServe Solutions LLP
58	TE	Mokar Pranay Balasaheb	SGMS INFOTECH LLP
59	TE	Motale Mahesh Babasaheb	Athena Automation
60	TE	Mujumdar Rohan Yogesh	Inpinite Solutions

prissoft

PRISMATIC SOFTWARES PRIVATE LIMITED

CERTIFICATE
TO WHOMSOEVER IT MAY BE CONCERNED

DATE: 31/03/2023.

This is to certify that **Ms.Bhargavi Patil** student of the Third year of Engineering (Information Technology) from **M.M.M's College of Engineering, Karvenagar, Pune,** affiliated to Pune University, has successfully completed her assigned project work at '**Prismatic Softwares Private Limited'** from 13th February 2023 to 31st March, 2023.

During the above period, she was placed as an intern and worked with our development team on the project titled as "**Codeiti**", which involved technologies like Python, Flask and MySQL database.

The candidate was found to be enthusiastic and curious during the internship. Her performance was good during this period.

HR Officer
Prismatic Softwares Private Limited

3rd Floor, Swaroop Complex, C.T.S. 41/14-15, Karve Road, Erandawane, Pune - 411004.
Website: www.prissoft.net | GSTIN: 27AAGCP9460Q1ZI | CIN: U72900PN2012PTC145636

DocuSign Envelope ID: 6FA5B863-BAF4-4D92-AC4A-6A6F39AE4D19

INSPIRIT VISION
Instilling Futures...

A-3, Abhimanshree Society,
Pashan Road, Pashan,
Pune - 411008, India,
(+91) 20 25640505
info@inspiritvision.com

Date: 12th April, 2023

TO WHOM IT MAY CONCERN

This is to certify that Mr. Aditya Paranjape has completed the internship in Inspirit Vision LLP starting from 1st February 2023 to 31st March 2023. During the internship period, he worked on Visitor Management with Infra team for biometric onboarding in process by implementation of Active Directory. He has a great ability to swiftly pick up new frameworks and technologies and has a consistent work ethic while meeting deadlines. He is a bright, honest, sensible young man and we have absolute confidence in his ability to make things work. We strongly recommend him for admission into your esteemed institution.

For Inspirit Vision LLP

DocuSigned by:
Rajnish Ray
Chief Operating Officer (COO)

DocuSigned by:
46970FE8D056444...

Inspirit Vision LLP   •   A- 3, Abhimanshree Society Pashan Road, Pashan Pune   •   info@inspiritvision.com

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S.M. Internet Solutions Inc.

LETTER OF COMPLETION

03-04-2023
Subject: Internship completion Letter

TO WHOM IT MAY CONCERN

This is to certify that Mahesh Pimparkar, bearing Code: SM-5684, has successfully completed an internship with S.M. Internet Solutions Inc. as an Accessibility Manual Web Development Intern in the Web Development Department from November 23, 2023, to February 23, 2023.

Mahesh worked on the "Accessibility Manual" project under the supervision and guidance of Kennice Offer. During the internship, he gained several learnings such as improving web accessibility and developed considerable skills, including web development, accessibility testing, and adhering to accessibility standards.

Besides showing high comprehension capacity, managing assignments with the utmost expertise, and exhibiting maximal efficiency, Mahesh also maintained an outstanding professional demeanor and showcased excellent moral character throughout the internship period.

I hereby certify his overall work as excellent to the best of my knowledge. Wishing him the best of luck in his future endeavors.

Best regards,

DocuSigned by:
Jom Wood
B9ADFA06F8D44E1...
Jom Wood

📞 (905) 770-4481   ✉ hradmin@smsolutions.com   📍 Richmond Hill Toronto, ON Orillia, ON

FunServe
Quality. Functional. Service

Date: 4th May 2023

Internship Certificate

To,
Om Prashant Kenge

This is to certify that **Om Prashant Kenge** has successfully completed an internship with FunServe Solutions LLP with below details.

Hire Date: 1st Feb 2023
Relieving Date: 30st April 2023
Designation: Jr. Software Engineer - Intern (Backend Developer)

We thank him for his contribution towards FunServe Solutions LLP.

Sincerely,
For FunServe Solutions LLP.,

Authorized Signature

FunServe Solutions LLP, B-2005, Pancham, Nanded City, Pune -411041

Internship Certificates of Students

5. *Student Publications*

Sr. No.	Name of Author	Paper Title	Journal/ Conference
1	Sharwari Akre, Aryan Hamine, Yash Ghan, Anisha Kango	Drug Supply Chain On a Decentralized Network: A Survey Paper	Journal of Data Acquisition and Processing
2	Kedar Khedkar, Saurabh Lohokare, Mitali Chougule, Piyush Terkar	An Automated Solution for Department Data Management System	International Journal Of Creative Research Thoughts
3	Rahul Haral, Saniket Kute, Aishwarya Patil, Amit Shirsat	Tuberculosis Detection Using Chest X-Ray with Deep Learning and Visualization	International Journal For Research in Applied Science & Engineering Technology
4	Atharva Pawar, Pratiksha Rupde, Snehal Khodake, Achal Raut	Melanoma Skin Cancer Detection using Image Processing	International journal of applied science and engineering
5	Rutuja Lalge, Stuti Bhongale Pratiksha Hiwale, Prem Gorde	Insect Classification and Detection Using Skeletonization	International Journal of Scientific Research in Engineering and Management
6	Preetish Agarwal, Rushikesh Bawaskar, Soham Survase, Prateek Koul	Emotion Based Music Player	International Journal of Novel Research and Development
7	Shashank Kulkarni, Akanksha Unde, Pradnya Suryawanshi, Harshada Sutar	Multi-modal Emotion Detection System	International Journal of Scientific research in Engineering and Management

6. *Workshops & Technical Events Conducted by Department*

1. **One week FDP on "Blockchain Technologies and Its Use Cases" in association with The Institution of Engineers India (IEI):**

<u>Event name</u>: **One week FDP on " Blockchain Technologies and Its Use Cases " in association with The Institution of Engineers**
**Event date: 20rd To 25th March 2023**
Platform: Google meet

Department of Information Technology had organised an event named One Week FDP on "Blockchain Technologies and Its Use Cases". It was a faculty training program specially organized for Faculties.

The event was open for faculties from Computer and IT branch. We received over 140 registrations from colleges all across Maharashtra. The event was coordinated by Dr. Swapnaja A. Ubale and Mrs. Shital A. Kakad.

The event was conducted via Google meet. All the resource person's Mrs. Pratibha Das, Mr. Shreekant Kulkarni, spoke in detail about Web Technology and also conducted a very informative hands-on sessions for the participants.
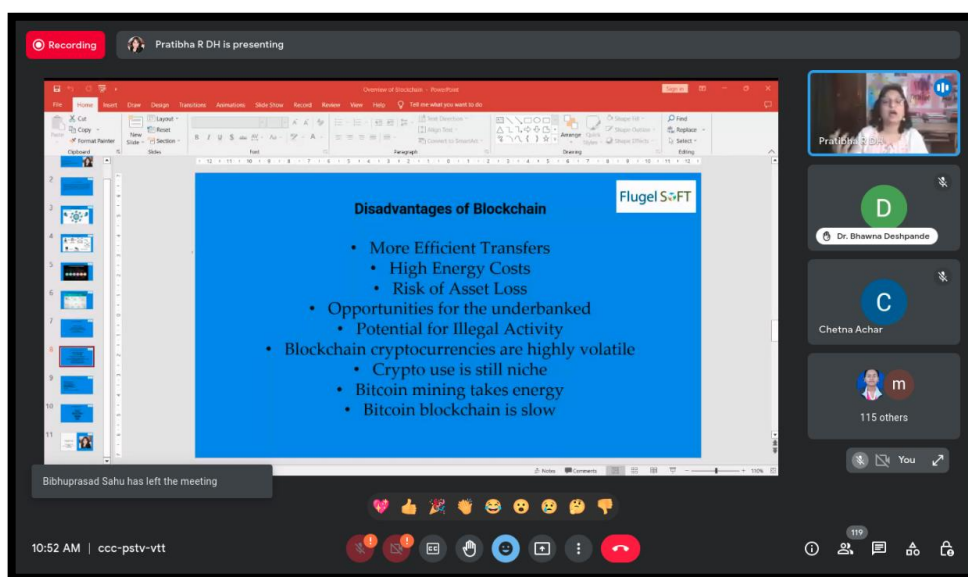
2. Web development workshop

Event Date : **17th March & 18th March 2023**
Venue : **Lab 410, IT Dept, MMCOE**

The Department of Information Technology, Marathwada Mitra Mandal's College of Engineering, Pune in association with IT Students Association (ITSA) organized an event "Web Application Development Workshop & Competition" on 17th & 18th of March, 2023. The guests for the event were Mr. Parth Gupta and Mr. Pranav Jawaji. The guests were welcomed by Mr. Anish Kulkarni.

They conducted a session on how to use react native and node js for frontend and backend, and mongodb for database storage for creating a dynamic website. They demonstrated to the students on how to install these applications and guided them throughout the process. Students created a food ordering application during these two days.

After the workshop, students were given an assignment to create a project in groups of 2 in the next 3 days and submit the same for evaluation by the speakers. Total 36 students participated in this workshop.

The workshop concluded by a vote of thanks delivered by Mr. Anish Kulkarni. The guests were felicitated by Mrs. P. S. Joshi, Mr. N. S. Dhavase and Dr. B. P. Vasgi.

The Student Coordinators for the event were Mr. Bhuvanesh Rajekadam, Ms. Nikhita Watpal and Mr. Anish Kulkarni and the faculty coordinators were Dr. S. A. Ubale and Mr. N. S. Dhavase. The event was conducted successfully under the guidance of Dr. Rupali Chopade (HOD,IT) and Principal, Dr. Vijay Gohokar.

Glimpses from Web Development Workshop

▪ **Spoken Tutorial :**

Event Name : Spoken Tutorial Online Test

The summary of the result of the spoken tutorial test for Sem-II were as follows :

Branch	Year	Course Name	Candidates Appeared	Candidates Passed	Passing Percentage
IT	S.E.	C++	56	56	100
IT	T.E.	Java	74	73	98.64
IT	B.E.	LateX	80	80	100
Computer	S.E.	C	149	148	99.33
Computer	T.E.	RDBMS PostgreSQL	159	159	100
Computer	B.E.	R	140	135	96.43

Certificates of Students

• **Parent Teacher Meeting :**

Event Date: 01/04/2023
Mode of Conduction: Offline
Venue: AC 401, IT Department, 4th Floor, MMCOE, Karvenagar.

Parent Teacher meeting for the academic year 2022-23, Semester-II was conducted on 1ˢᵗ April 2023 in the college campus. Around 52+ Parents from SE, TE and BE were present for the Meeting.

Commencement of Parent Teacher meeting at 10:45 am with the welcome speech by Mrs. Preeti Joshi. Department presentation regarding vision, mission, PEO and infrastructure details and academic policies followed by the department was presented by Dr. Rupali Chopade, HOD. Felicitation of Toppers from SE, TE and winners in Extra-curricular and Co-curricular activities. Overview of T&P Activities undertaken by the college by Ms. Rohini Mulay, Director, CRD, MMCOE. Questions and issues of the parents were then addressed by HOD Dr. Rupali Chopade and faculty members of the Department. The parent teacher meeting concluded at 12:30 pm followed by refreshment.

➢ *Following points were discussed in Meeting:*
1. *At the start of the Presentation the Vision and Mission of the Department was disseminated to the Parents.*
2. *Last year and Current year placement scenario were discussed with the parents.*
3. *Discussed the efforts taken by the Department and College for placement and internship.*
4. *Mrs. Rohini Mulay, Director, CRD, MMCOE, discussed various initiatives taken by the college for Students'   Internships and Placements.*
5. *Discussed the various activities conducted in the department like skill-development programs, Curriculum   gap bridging Lectures, Guest Lectures, Workshops, coding competitions and other events conducted under ITSA, IT Tech. Club and ACM student chapter.*
6. *Discussed the various activities and projects conducted under the 'Centre of Excellence Computational Intelligence' in the department.*
7. *Discussed the new lab setup of blockchain and its infrastructure. Parents appreciated the lab details and effort taken by the college on improvement of infrastructure.*
8. *Parents appreciated the efforts taken by the College and Department and were happy to meet the faculties   in person.*

7. _Seminars / Guest Lectures Conducted by Department_

Sr. No.	Name of Resource Person	Designation and Organization	Topic of Lecture	Date	Beneficiary class
1	Mr. Anil Raj	Founder, Director of Cybervault Securities Solutions Pvt. Ltd.	Cyber Security Awareness	27/01/23	SE, TE, BE
2	Mr. Ajay Deshpande	Senior Director, ICERTIS.	SMAC Technologies	18/03/23	SE, TE, BE
3	Mr. Heramb Gadgil	Data Science Operations Lead, General Mills Mumbai	Case studies and career pathways in Data Science	12/05/23	TE
4	Mr. Pratik Kadam	Associate Lead DevOps, UST Product Engineering	Docker-Container Application development	15/05/23	TE
5	Mr. Viren Chaudhari	Senior Threat Research Engineer, Qualys, Pune	Cyber-attacks and tools	17/05/23	TE
6	Mr. Atish Karmarkar & Mr. Umesh Kumar	Founders of Erober	Business model of Erobern	18/05/23	BE
7	Mr. Arvind Shaligram,	CEO of SPPU Research Park Foundation	Intellectual Property Rights	19/05/23	SE
8	Mr. Vipul Vaibhaw	Senior Software Engineer, Spaceandtime	Distributed System - scala and Rust Programming Language	21/05/23	BE
9	Mr. Akmal Ziyad	Software Developer, Persistent Systems Pvt. Ltd.	Cyber security and law for social media	22/05/23	TE, BE
10	Mrs. Snehal Virwadekar	International's Expert Panel Member, UpGrad Pune	Query processing and Optimization - Case Study	23/05/23	SE
11	Mr.Nishant Mallya	Manager at Arista Networks	Quality analysis & software Testing	23/05/23	SE
12	Mr. Milind Jadhav	Senior Consultant TCS	Introduction to snowflake and its application	27/05/23	TE
13	Mr Ashish Kuvelkar	Sr. Director, CDAC	Micro Controler & Embedded System	27/05/23	SE

8. *ACM Student Chapter Activities*

The students selected for the mentioned posts of MMCOE ACM Students chapter (https://mmcoe.acm.org), for the AY 2022-23 are as below:

Sr. No.	Name of Post	Name of Student
1	Chairperson	Mr. Aditya Paranjape
2	Vice Chairperson	Ms. Bhargavi Patil
3	Treasurer	Mr. Keyur Joshi
4	Joint-Treasurer	Ms. Shruti Savanur
5	Secretary	Ms. Isha Agarwal
6	Joint-Secretary	Ms. Tejal Khadke

Inauguration of ITSA and ACM office on Engineers Day

● ACM Event/Workshop :

Event Name: **Preliminary round of KAVACH 2023**

Event Date: 12/04/23

Mode: Offline

ACM Student's Chapter, MMCOE, Pune organized an ideathon a prerequisite for 'Kavach-2023" on 12th April 2023. The preliminary round-Internal Hackathon for KAVACH 2023 was organized at MMCOE in collaboration with TEAM CODE on 12th April 2023. This Internal Hackathon was conducted with the purpose of selecting top 10 teams from institute for nominating towards KAVACH 2023.

The students participated in teams of 6 members and selected a problem statement their choice. This internal Ideathon was based on 20 problem statements given by KAVACH 2023. Teams were supposed to present their ideas to a panel in a time slot of 10 minutes.

The top 10teams ideas were selected to be nominated for further evaluation rounds of KAVACH 2023. The top three teams with phenomenal teams were also awarded with cash prices of Rs 3000, Rs. 2000 and Rs 1000.

The competition was organized at a national level with over 33 teams constituting about 130+ participants from various colleges like VIT, VIIT, Cummins, AISSMS, MIT WPU, Modern, Sinhgad-SKN, Sinhgad-RMD and MMCOE. The event was conducted in a digital space encompassing 2 different platforms, GitHub and Google Meet in association with TATA Technologies, SoftTech, Express Analytics, Scrobits, Atomic Loops, Wolfram One, Jetbrains and GiveMyCertificate.

Glimpses from KAVACH Ideathon

• ACM Brain games :

Event Name: **Brain Games**
Event Date : End of Every Month
Venue : Online
Platform : Google Forms

The ACM Student's Chapter of Marathwada Mitra Mandal's College of Engineering, Pune successfully conducted "ACM Brain Games" for the months of August and September 2022.

The quiz questions were divided into general knowledge and technical knowledge. The quiz consisted of a total of 14 questions. The total points for the quiz were 20.

To select a winner from multiple top-scorers a digital lucky draw was developed in house. Every month, the winner was awarded with ACM Googies.
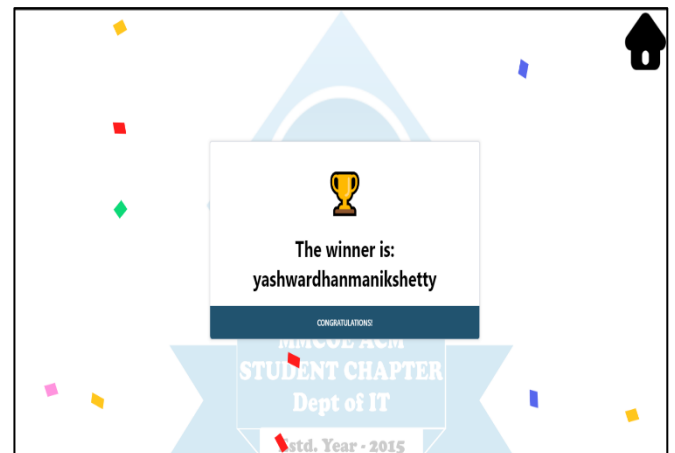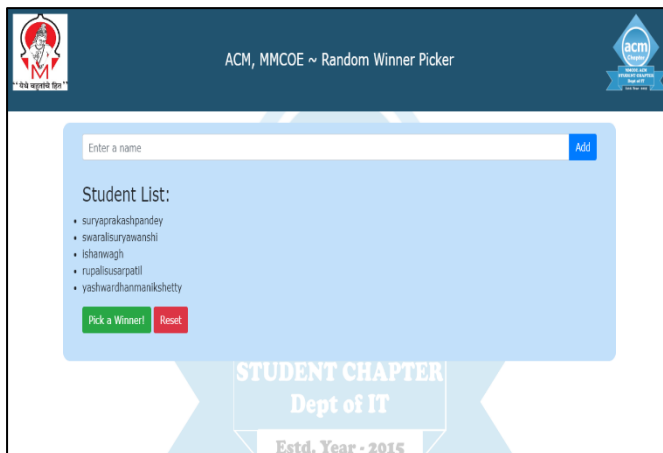
Glimpses from Brain Games in month of December

● ACM Hour of Code:

Event Name: Hour of Code
Event Date: 7th December, 2022
Venue: 4th Floor, Department of Information Technology, MMCOE

*The **Department of Information Technology, Marathwada Mitra Mandal's College of Engineering, Pune** in association with **Information Technology Students' Association (ITSA) and ACM Students' Chapter-MMCOE** organized a social event "**Computer Literacy Program**" on **7th December, 2022**. Fifty students form 5th and 6th class of **ITEACH SAV School, Karve Nagar, Pune** attended the event. Members of Information Technology Students Association conducted the session on "**Computer Science Education''** under which the students were taught about the basics of computers, Hardware & Software Devices, Input & Output Devices, Microsoft Office Tools and Paint.*

*This was followed by the the session on "**Hour of Code**" which was undertaken by the members of the ACM Students' Chapter MMCOE During this session, students were taught how coding can be fun using various pre-designed modules from ACM and they developed a **Flappy Bird game program** using basic English-like words.*

Glimpses from Hour of Code

9. *Students Association (ITSA) Events*

- ITSA is an association of IT department students for the students by the students of the students. ITSA was formed in AY 2014-2015.

- ITSA Student Committee for 2022-23:

Sr. No.	Post	Name
1	President	Mr. Om Kenge
2	Vice President	Mr. Bhuvanesh Rajekadam
3	Secretary	Mr. Varad Mahajan
4	Department GS	Mr. Anish Kulkarni
5	Technical Head	Mr. Mahesh Pimparkar
6	Social Media Head	Mr. Rohan Pathak
7	Creative Head	Ms. Reva Pethe
8	Treasurer	Mr. Shreyas Kolharkar
9	Member	Ms. Nikhita Watpal
10	Member	Ms. Swarali Suryawanshi

• **Activities (AY 2022-23 Sem II) are as follows:**

Event Name : Computer Literacy Program at Orphanage
Event Date: 7th May, 2023
Venue: Mamta Foundation, Gujarwadi Rd, Katraj

The Department of Information Technology, Marathwada Mitra Mandal's College of Engineering, Pune organized a Social event for cause of computer Literacy at Mamta Foundation on 17th May 2023. 17 enthusiastic students along with coordinator Mrs. Preeti Joshi and HOD Dr. Rupali Chopade visited Mamta Foundation.

Mamta foundation is an NGO aimed at serving children and women who are diagnosed with HIV+. They have more than 25 children and 3 mothers staying at the foundation

The main objective was to make the children aware about working of Computer, it's application and usage. The children were taught about different components of a computer, usage of MS Word & MS Paint and many other applications.
*Special thanks to our Hon. Principal Dr. V.N. Gohokar for giving us this opportunity.*

10. *IT-Tech Club Events*

- IT-Tech Club is an association of IT department students for the students by the students. It was formed in AY 2021-2022.

- IT-Tech Club Committee for 2022-23:

Sr. No.	Name of Post	Name of Student
1	President	Ms. Swarali Suryawanshi
2	Vice-President	Ms. Nishita Bhagwat
3	Student Advisor	Mr. Mahesh Pimparkar
4	UI / UX Head	Mr. Aniruddha Ramane
5	UI / UX Co head	Mr. Saksham Avashthi
6	Web Development Head	Mr. Koustubh Wayfalkar
7	Web Development Co Head	Mr. Prasad Kachare
8	Data Science & AL-ML Head	Ms. Riya Gawande
9	Data Science & AL-ML Co Head	Mr. Rohan Fargade
10	Competitive Coding Head	Mr. Mahesh Motale
11	Competitive Coding Co Head	Ms. Anushka Chavan
12	Social Media Head	Mr. Dakshesh Gandhe
13.	Social Media Co Head	Mr. Saifnath Chandanshive
14	Content Designer	Mr. Jineet Vaishnav
15	Member	Mr. Vedant dalal
16	Member	Mr. Hitesh Marathe
17	Member	Mr. Umakant Shinde
18	Member	Mr. Shubham Dhobale

• UI/UX National Competition:

Event Name : UI/UX National Competition 2023
Event Date: 11th March, 2023
Venue: IT Dept, MMCOE

The Department of Information Technology, Marathwada Mitra Mandal's College of Engineering, Pune organized a Social event for cause of computer Literacy at Mamta Foundation on 17th May 2023. 17 enthusiastic students along with coordinator Mrs. Preeti Joshi and HOD Dr. Rupali Chopade visited Mamta Foundation.

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11. Center of Excellence - Computational Intelligence

Ongoing Projects under CoE

Sr. No.	Project Name	Domain
1	Object detection and currency recognition android application for visually impaired people	Artificial Intelligence
2	To develop a blockchain-based application for a drug supply chain over a decentralized network	Application Development/ Blockchain Solutions
3	E-appointment Portal	Web application development
4	Depression Detection through social media reviews using deep learning	Deep Learning
5	Donation System using Blockchain Technology	Security & web development
6	Road extraction from satellite images	Image processing
7	Credit Card Default Prediction	Machine Learning / IOT/ Web Application Development
8	Skill and Document verification for college purposes using Blockchain	Web application development / Blockchain/Machine learning
9	Online shopping system	Mobile app, Web Application, Android app+ ML
10	Cloud-Based HealthCare Monitoring System.	IoT and Web Application Development.
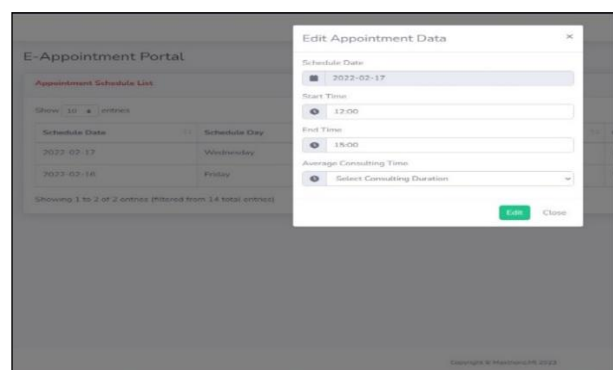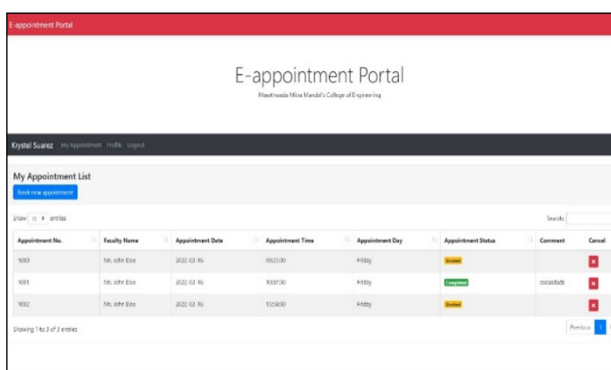
12. *Result (AY 2022-23 Sem II)*

Sr. No.	Class	No. of Students Appeared	Passing Percentage
1	SE	79	97.47
2	TE	85	98.82
3	BE	75	98.67

Our Toppers

Class	Rank	Name of Student	SGPA
SE	1	Velankar Isha Shivaji	9.07
	2	Ladhe Vaibhavi Vikas	8.84
	3	Jainak Omkar Sanjay	8.55
TE	1	Khadke Tejal Bahubali	9.79
	2	Kolhatkar Rohan Chandrashekhar	9.43
	3	Kulkarni Anish Suhas	9.36
BE	1	Pawar Riddhi Rajendra	9.57
	2	Lohokare Saurabh Prasad	9.54
	3	Akre Sharwari Amol Deshpande Aditi Anilrao	9.51

13. Technical Blog by Students

1. <u>Title</u> : **Same Same But Deflent**
    Author : Mahesh Pimparkar (BE-IT)

As a child, I always wondered how many people, like me, accessed the internet every day- uploading stuff, downloading content, posting cool pictures on social media, or visiting websites to learn. But deep down, a lingering question persisted: Is our data really private? What would it take for someone to track me down? As a security professional, I have the answers my inner kid sought.

Let's start by discussing online privacy. According to Google, it's the ability to control how much of your information, including browsing, financial, and potentially sensitive personal data, third parties can collect and use when you go online. However, if you were asked as a user how much data you'd be willing to give to access a site or service, the answer would likely be none. I would say the same. The catch is, while accessing these sites or apps, these services often track your IP, geolocation, preferences, ISP, and more just to gather information about you. The more, the better. Nowadays, they say data is the new fuel, and everyone is in a race to mine as much as they can. They want to understand your preferences, what you do, and what you like so they can bombard you with targeted ads. But, really, what's new in that? These online services use our data, and it's protected—we all know that. But is there something more?

What if someone genuinely wanted to track you down? All they might need is access to the information about you that is publicly available, using techniques like OSINT (Open Source Intelligence). Let's find out if the information you freely gave can be used against you.

Now, let's try to imagine a scenario where a hacker is attempting to collect information about me. I will explore how they might go about it by attempting to track me down with just a photo—no name, no details about where I live or what I do. Let's see.
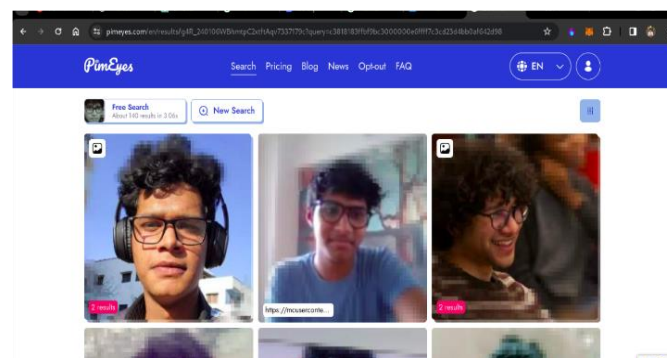

All they have is this photo of mine—a simple black and white picture. What harm can someone do with this??

Having a simple picture is not enough. Let's find a way where we can do a reverse image search with this picture. For a long time, I have used many reverse image services, but https://pimeyes.com is one of the services which actually works pretty well. So let's do that. All you have to do is go on
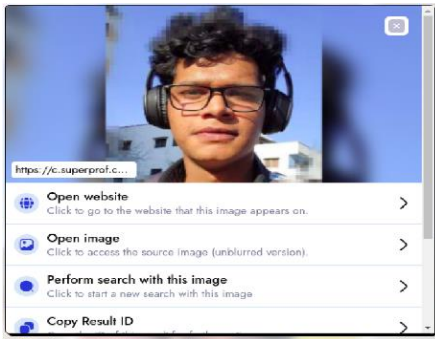

https://pimeyes.com/en
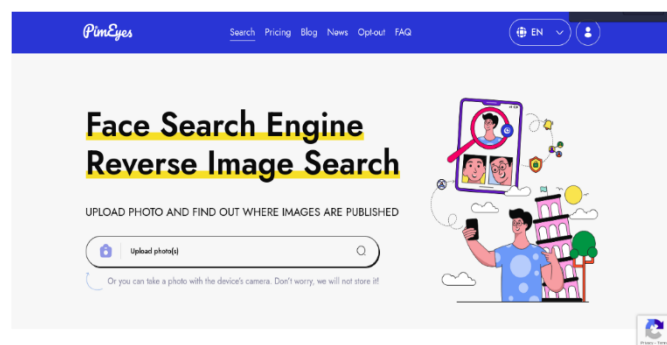
Right here, we have to upload the image which we want to do a reverse image search on. And boom, here are the results.

The first result is pretty accurate, and I got 2 links.

Let's find out what that is.

Here, I got the link for SuperProf.

SuperProf is a platform for tutors where you can post your ad and link with potential students looking for classes in your area of expertise. It has been a really good experience to connect with students.
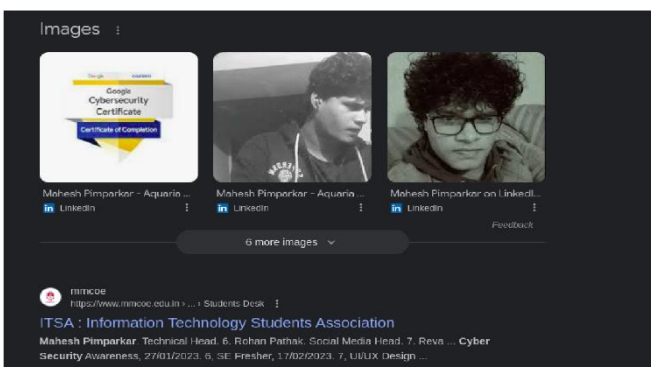
Maybe our victim teaches something, let's find that.

Okay, looks like our guy's name is Mahesh Pimparkar, who is a security instructor and an online freelancer.

Now that we know his name, let's crack down his other social media accounts using a good tool called Google.
I will only search for
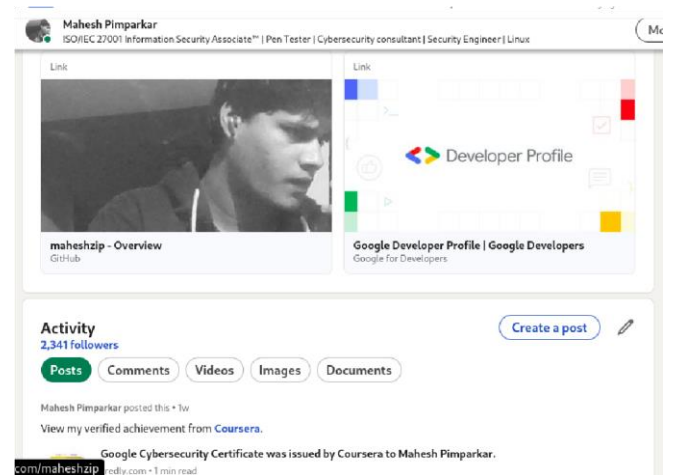Cyber Security: Mahesh Pimparkar.

And what we found a lot here.

Also, we found the right guy.

Looks like Mahesh is a member of the student association in college called MMCOE, and also, we got his LinkedIn profile. Let's see if we can find his contact details there.
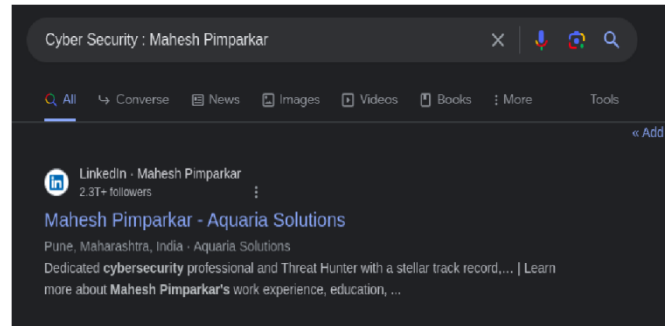
We can see that Mahesh posted GitHub on LinkedIn. Let's see if we can find something there.

In his GitHub followers, I found someone forked his repository containing a tag

mailto:maheshpimparkar6@gmail.com.

By simply searching maheshpimparkar on GitHub in the search bar in some code, now this method is a bit tricky since Mahesh was a security professional and knows how to hide his contact details, but still, a little mistake by him exposed his email. In a scenario where you are trying to find someone's email address, you don't have to do this; you can simply send them a connection request on LinkedIn

and, after that, once they accept your request, you can view their email in the contact section of their profile.
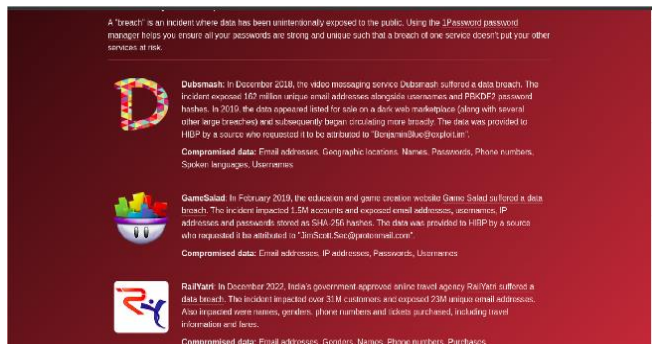
Now from a single black and white picture, we found his name, college, city, email, and his connections from LinkedIn. But this is not enough to harm Mahesh; we need to find something scary.

For that, we are going to see if he was found in recent data breaches. For that we are going to the

service called https://haveibeenpwned.com/.
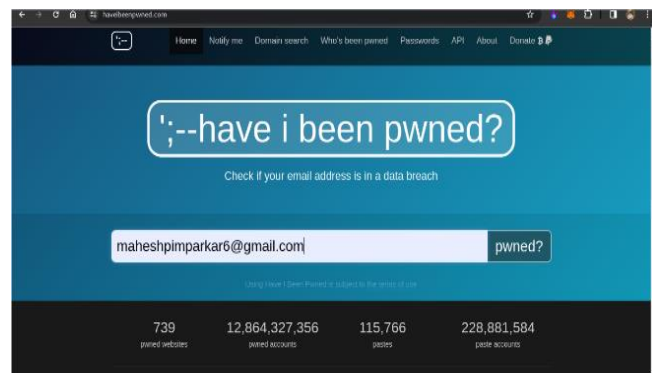
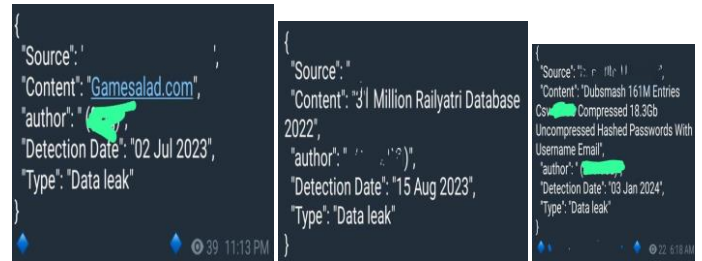After entering Mahesh's email here, we should be

able to see in which data breaches he was found, and yes, he was breached in multiple data dumps listed

below in which his personal details like Email addresses, Geographic locations, Names, Passwords, Phone numbers, Spoken languages, Usernames were leaked.

But always remember accessing this information which was leaked and dumped is illegal. And in this blog, I'm not even going to show how to access that; sorry, I'm not even married and not even planning to be behind the bars real soon. But I will skip that step and show you direct data. How would it look to

a hacker, and trust me, people who are part of these underground hacker communities can easily get access to these details. Even I have access to that

{
"Source": " ",
"Content": "Gamesalad.com",
"author": " ",
"Detection Date": "02 Jul 2023",
"Type": "Data leak"
}

{
"Source": " ",
"Content": "31 Million Railyatri Database 2022",
"author": " ",
"Detection Date": "15 Aug 2023",
"Type": "Data leak"
}

{
"Source": " ",
"Content": "Dubsmash 161M Entries Csv Compressed 18.3Gb Uncompressed Hashed Passwords With Username Email",
"author": " ",
"Detection Date": "03 Jan 2024",
"Type": "Data leak"
}

too, but not going to show I did that.

I have access to those details for legal and ethical purposes, but I have blurred those details so you don't end up doing something stupid.

And boom with those dumps, we got all that we want.

Now what do you remember? We got his IP address too. That can be also helpful if you want to do some more recon with nmap on his home network if it's his home WiFi IP but not that will be another long blog but instead let's learn more about this user with his IP address.

But only with IP, what possibly we gonna get? Maybe location which is not even exact but ISP, and is that enough? No. We will use a service called https://iknowwhatyoudownload.com/.

'I Know What You Download' has been tracking BitTorrent users for years. It has a database of more than nine million torrents and detects more than 100 million instances of sharing every day. It is not a pirate site; it's a service that tracks BitTorrent users.

It'll work if the user uses a torrent service to download.

Let's see with his IP. But what if you don't have the IP address of that user in case that you can use a service like an IP grabber.

https://grabify.link/

You just have to utilize some social engineering and forward the URL created by the IP grabber, and boom once the user clicks on that, you will get their IP address that easy.

But since we have Mahesh's IP, which we got from the breach, we will see what he downloads and his interest.

We have to go on https://iknowwhatyoudownload.com/ and paste his IP address there (I'm not using my IP; I'm not dumb). Instead, I will use an IPs which I have been capturing from a long time.

For my site http://mahesh.epizy.com

For this experiment, I will use these details.

IP Address: 110.78.115.31

78.115.31 Hostname: 110.78.115.31 Port Number: 29120 User Agent: Mozilla/5.0 (Windows
NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/120.0.0.0
Safari/537.36 DATE: January 4, 2024, 6:28 am HTTP Referer: http://mahesh.epizy.com/

Decimal: 1850635039
Hostname: 110.78.115.31
ASN: 9931
ISP: CAT Telecom Public Company Ltd
Services: None detected
Assignment: Likely Static IP
Country: Thailand
State/Region: Krung Thep Maha Nakhon

City: Bangkok
Latitude: 13.7500 (13° 44′ 59.91″ N)
Longitude: 100.5168 (100° 31′ 0.53″ E)

These are the details of a scammer from Thailand who recently tried scamming me, and I sent him my site which he clicked and I got him.

Ah, and yes, it looks like our scammer likes pirating

movies.
And I guess that will be all.

With only an image, this is what we did.

Simple Image -> Reverse Image Search -> Name and Profession -> LinkedIn -> GitHub -> Email Address –> Recent Data Breach -> IP Address -> Interests

And how easy it was then if it's that easy for hackers

to dig up info then what's the solution here, yes, there is a highly protected image of a cat on the profile picture.

Thanks for reading!
Mahesh Pimparkar
Professional security nerd

2. <u>Title</u> : 5G Unleashed: Revolutionizing IoT Across Industries

Author: Vishvjita Savkare (TE-IT)

In our dynamic digital age, the escalating demand for advanced network technology to support the Internet of Things (IoT) has found a powerful ally in 5G technology. The fifth generation of cellular networking, 5G, is not merely a step up from its predecessors; it's a transformative force poised to reshape the digital landscape. This blog explores the profound impact of 5G on IoT, unveiling real-world examples that highlight the practical implications of this technological alliance.

Understanding 5G and IoT:

5G, characterized by remarkable data speeds, low latency, and increased dependability, converges with the Internet of Things (IoT), where devices seamlessly communicate to process and exchange data. This confluence is not just about connectivity; it's about creating a seamlessly interconnected world.

The Impact of 5G on IoT:

The integration of 5G and IoT promises a faster communication medium, boasting speeds of several gigabits per second. This enables quicker coordination among devices, introducing an ultra-low latency network that holds promise for delicate tasks such as surgery. With the ability to connect numerous devices without compromising quality, 5G sets a new standard.

Applications of 5G and IoT:

The applications are diverse and impactful:

1. Smart Parking: Remotely park cars using a 5G IoT network, even summoning vehicles directly.

2. Agricultural Monitoring: Farmers benefit from IoT networks to remotely monitor crops and livestock, optimizing agricultural practices.

3. Remote Surgeries: 5G enables doctors to perform surgeries remotely using low-latency equipment, expanding healthcare possibilities.

4. Entertainment Enhancement: Low latency contributes to improved gaming experiences, allowing users to play AAA games without delays.

5. Home Monitoring: Individuals can remotely manage homes, tracking devices like robot vacuum cleaners while away.

Transformative Impacts of 5G on IoT:

1. Lightning-Fast Speeds: Smart factories benefit from real-time communication among sensors, enhancing efficiency in industrial automation.

Example: Robotic arms communicate in real-time, ensuring precise manufacturing processes.

2. Low Latency Revolution: Autonomous vehicles respond swiftly to real-time data, ensuring safety and optimizing traffic flow.

Example: Fleet of autonomous delivery vehicles dynamically adjusts routes in real-time for efficient transportation.

3. Massive Device Connectivity: Smart cities leverage 5G's ability to handle a massive number of devices simultaneously.

Example: Environmental sensors in a 5G-equipped smart city provide real-time data for informed urban planning.

4. Energy Efficiency and Sustainability: 5G's energy-efficient protocols contribute to sustainability in IoT deployments, especially in smart buildings.

Example: Smart building IoT devices adjust settings based on occupancy and environmental conditions, improving energy efficiency.

5. Security Challenges and Solutions: In healthcare, 5G addresses security concerns in IoT devices used for remote patient monitoring.

Example: Wearable devices with IoT sensors securely transmit real-time patient data for accurate diagnoses.

6. Edge Computing Synergy: Combining 5G with edge computing in retail enhances data processing efficiency.

Example: Retail IoT devices track inventory levels in real-time, enabling instant decisions on restocking shelves.

5G IoT Today:

With over fourteen billion IoT devices globally, their impact on the economy is substantial. IoT applications, powered by private 5G networks, have not only improved living standards but also enhanced productivity and economic efficiency.

Understanding the broader implications:

- What is 5G? Theoretical peak speed of 20 Gbps, surpassing 4G capabilities, promises lower latency and revolutionizes various digital experiences.

- Simplify Mobility: 5G networks simplify mobility with seamless open roaming capabilities between cellular and Wi-Fi access, ensuring users stay connected effortlessly.

- Enhanced Speed and Capacity: 5G offers enhanced speed and capacity, enabling faster data transmission and seamless streaming experiences.

- Ultra-Low Latency: A key advantage of 5G is its ultra-low latency, enabling near-instantaneous communication and response times.

- IoT Empowerment: 5G plays a pivotal role in empowering IoT, enabling seamless communication between devices for real-time data collection, analysis, and decision-making.

- Improved Reliability and Network Stability: 5G brings improved reliability and network stability, ensuring seamless connectivity even in crowded areas or during peak usage hours.

- Transforming Industries and Enabling Innovation: 5G technology transforms industries, fueling innovation by providing a platform for emerging technologies like artificial intelligence and machine

learning.

"5G and IoT: A Symbiotic Revolution in Connectivity"

In the rapidly evolving landscape of technology, the convergence of 5G and the Internet of Things (IoT) is ushering in a transformative wave that extends across diverse industries. This blog aims to delve into the impactful synergy between 5G and IoT, exploring real-world instances that highlight the profound implications of this powerful alliance.

Imagine stepping into a retail store where smart shelves and interactive displays seamlessly provide real-time product information and personalized promotions, all made possible through the intricate integration of 5G and IoT. This not only elevates customer engagement but also streamlines inventory management, fundamentally reshaping the retail experience.

The transformative power of 5G and IoT collaborations becomes evident when examining

real-world examples. In smart factories, 5G facilitates real-time communication among thousands of sensors, enhancing operational efficiency and precision in manufacturing processes. Consider autonomous delivery vehicles dynamically adjusting routes in real-time, ensuring efficient transportation with the low latency capabilities of 5G. In smart cities, environmental sensors equipped with 5G provide real-time data for informed urban planning, optimizing energy consumption and creating sustainable environments.

However, this technological synergy is not without its challenges. As the number of connected devices increases, so does the risk of cyber threats, necessitating robust security measures and standards. The integration of various IoT devices from different manufacturers poses a challenge, which is addressed through standardization efforts and open frameworks. To accommodate the growing number of devices and data, continuous investments in network infrastructure and technologies like edge computing are crucial. Privacy considerations, especially with the vast amount of data involved, require privacy-focused designs and strict adherence to regulations. Additionally, ensuring energy efficiency, particularly for battery-operated devices, involves implementing smart designs and efficient communication.

Looking forward, the uncharted potential of 5G and IoT presents an exciting adventure filled with possibilities. Faster internet, super-fast downloads, and a more connected world where devices seamlessly communicate are on the horizon. In this future landscape, smart cities will have traffic flowing seamlessly, farms will utilize 5G and IoT for efficient crop growth, and remote health monitoring will become commonplace. As 5G and IoT technologies continue to evolve, the unexplored realms promise a world where devices collaborate seamlessly, making our lives easier and more interconnected. The adventure of 5G and IoT is not merely a journey into technology; it is an exploration of a future that holds limitless possibilities.

Conclusion: As the narrative of 5G unfolds, its transformative influence on the IoT landscape becomes increasingly evident. Real-world examples showcase tangible benefits, from enhancing industrial processes to revolutionizing healthcare and urban living. The journey of 5G and IoT is not merely about speed; it's a profound reshaping of how we interact with technology and, ultimately, the world around us. The future promises vast applications, increased interconnectedness, and numerous business opportunities across industries. 5G is not just a technological upgrade; it's a catalyst for a smarter, more connected world.

14. *Faculty Highlights*

1. Seminar/ Workshop / Conferences Attended :

Sr. No.	Topic	Name of Faculty	Particulars
1	Blockchain Technologies and Its Use Cases	Ms. Shital Kakad, Dr. Swapnaja Ubale	IEI – Professional Agenccy
2	Web Application Development	Dr. Swapnaja Ubale, Mr. Nikhil Dhavase	PhonePay, UTS
3	National Level UI/UX Competition	Mr. Jitendra Chavan, Ms. Shital Kakad	MMCOE
4	5 Days Online International Faculty Development Program	Dr. Rupali Chopade	FDP
5	Deep learning and Its Application	Dr. Bharati P. Vasgi	FDP
6	Introduction to Innovative Pedagogies for College Teachers	Dr. Bharati P. Vasgi	FDP
7	Introduction to Innovative Pedagogies for College Teachers	Ms Shital Kakad	FDP
8	Current Trend in Information Technology Sector	Dr. Bharati P. Vasgi	FDP
9	Deep Learning Application Development, Tools and Research	Ms Shital Kakad	FDP
10	Deep Learning Application Development, Tools and Research	Mr. Jitendra Chavan	FDP
11	5 Days Online International Faculty Development Program	Mrs. Shraddha Mankar	FDP
12	5 Days Online International Faculty Development Program	Mr. Nikhil Dhavase	FDP

2. **Faculty Achievements :**

1. Dr. Rupali Chopade has presented the EduTech Leadership Award at the EduTech Leadership Award by World Education Congress 2022.

2. Dr. Rupali Chopade has presented with a Certificate of Appreciation from the AICTE-EduSkills Virtual Internship Program.

3. Dr. Rupali Chopader received Grade "A" Certificate by E&ICT Academy.

4. Dr. Bharati Vasgi was invited as a Session Chair for the 4th International Conference on Communication and Information processing Elsevier SSRN India July 2022.

5. Mrs. Preeti Joshi has received Elite NPTEL Certification for NPTEL, Online Certification in "NBA Accreditation and Teaching and Learning in Engineering.

6. Ms S. A. Kakad was invited as a Reviewer for the River Publisher - Journal of Web Engineering, June 2022.

7. Mr. Jitendra Chavan received Elite NPTEL Certification for NPTEL, Online Certification in "Programming in JAVA" course.

8. Ms S. A. Kakad was invited as a Reviewer for the IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, ABV-IIITM Gwalior, December 2022.

9. Mr. Nikhil Dhavase was recognised for his Exceptional Contribution as a SPOC and Exceptional Contribution as a Mentor for the Smart India Hackathon, 2022.

10. Ms S. A. Kakad was invited as a Reviewer for the Elsevier- Education & Information Technology, June 2022.

15. List of faculty members in the Department

- **List of Teaching Staff Members :**

Name of the Staff & Designation		Name of the Staff & Designation	
Dr. Rupali M. Chopade *Associate Professor* *&* *Head of the Department*		**Dr. Swapnaja A. Ubale** *Associate Professor*	
Dr. Bharati P. Vasgi *Associate Professor*		**Mrs. Preeti S. Joshi** *Assistant Professor*	
Ms. Sheetal A. Kakad *Assistant Professor*		**Mrs. Rashmi M. Bhattad** *Assistant Professor*	
Mr. Nikhil S. Dhavase *Assistant Professor*		**Mr. Jitendra R. Chavan** *Assistant Professor*	
Ms. Shraddha Prakash Mankar *Assistant professor*		**Ms. Neelam S. Joglekar** *Assistant Professor*	

Mr. Bhushan M. Borhade		Mrs. Gauri Y. Gunjal	
Assistant Professor		*Assistant Professor*	

- ## List of Non-Teaching Staff Members :

Name of the Staff & Designation		Name of the Staff & Designation	
Mrs. Smita Kari *Lab Assistant*		**Mr. Dinkar R. Patil** *Technical Assistant*	