SURANA COLLEGE
AUTONOMOUS

Affiliated to Bangalore University | Re-accredited by NAAC with A+
Recognized by AICTE - New Delhi

Champions
Achievements
Workshops
Intelligence
Publication
Upskilling
Preplacement
SADHANA
Conference
Seminars
Communication
Activities
Confidence
Connect
Internalize
Expression
Events
Innovation
THE
IMPRESSIONS
Winners
Beginning
Presentation
Software
Work
Unique
Concepts
Spotlight
Career
Empower
Evolve
Creativity
MENTORING
Characters
Execution
Objective
Programming
Bootcamps
Celebration
Internship
Entrepreneurship
ROADMAP
Success Stories
Leadership

News Letter - MCA Program

Volume 02, Issue 02

5th August 2023

INTERNALIZE ▸ EMPOWER ▸ EVOLVE
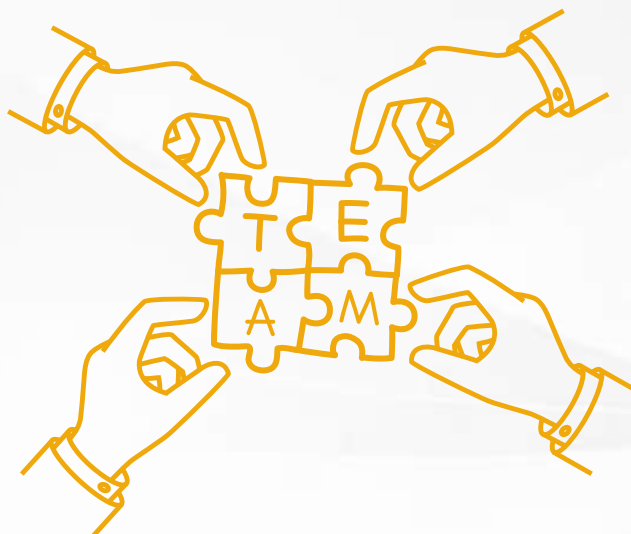
Dept. of MCA, Surana College, Bangalore

THE FOREWORD

"Empowering young minds to the changing needs" is the mission statement of the department of MCA. Change is the only permanent thing in the world. The IT industry is no exception to this. The department has been inculcating many innovative and best practices to meet the mission statement. One of the best practices is the process of imprinting memories into a collectible format. Hence the magazine, The Impressions.

Ideated by Dr. A Srinivas, the magazine was previously printed as "Sadhana Mirror" for more than 6 years. In 2020 the magazine is renamed "The Impressions" to collect all the cherishable moments of the department along with art and articles from our beloved students and faculty.

We thank our managing trustee Dr. Archana Surana for her immense support in all the initiatives of the department. Thanks to Dr. A Srinivas,the Director - L&D ,SEI and MCA for the inception of the idea of magazine.

This edition of the magazine has imprinted memories of the events that happened during the previous semester. Various activities such as the IT club activities, arts, articles, sports and cultural events are part of the collection.

Team MCA

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Director Speaks...

With justifiable pride, it can be placed on records that we meet the demands of new-age students and work with self-conviction, commitment, and complete focus. The path to perfection is not easy yet we achieve it. We have will and the potential.

Hearty congratulations to team MCA (Colleagues and Students of Computer Science) for taking the department activities to a higher level with your passion and unclinged commitment. It can be placed on records that programs such as Sadhana bring value addition to our MCA programme and eventually evolved as USP of the department.

The road map given by me more than a decade back is meticulously getting executed by you and shaped you into a confident and competent individual. Your journey from enthusiastic beginner to disillusioned learner to reluctant contributor to peak performer is highly valued.

Some people are consistently successful because of the qualities and abilities they develop in addition to the curricular aspects. My dear friends let me firmly state one thing, genuine career happiness comes from achieving personal goals in harmony with organizational goals. Wishing all the best for the rest of the years.

Dr. A Srinivas
Director (L&D) - Surana Educational Institutions
Director MCA

Dept. of MCA, Surana College, Bangalore

From the HOD's Desk....

With the revolutionary computing technologies at its forefront, the Indian IT sector is growing exponentially. While the dramatic growth is enabling a smarter planet, it has also created a dearth of proficient IT professionals. But fortunately, there are multiple academical courses offered by various colleges and institutions, which aim to meet the rising demand. Amongst them, MCA course is considered as one of the most sought-after. This post-graduation course helps an individual to hone the required technical skills to develop avant-garde tools and digital applications.

Our students and alumni have played a very important role in our success story. We are ever grateful to our students and alumni for their involvement in executing the visions of the department. We are also proud to say that, over the years, we have been able to maintain a strong bond between our alumni and the department. The objective of the department has always been to give the best to our students. The autonomous status has given us academic freedom to emphasize practical learning experiences.

Dr. K Balaji
HOD, Dept. of MCA

Dept. of MCA, Surana College, Bangalore

ABOUT MCA

Mrs.Bharati Ramesh, Mr.Akshay, Dr.K.Balaji, Mr.Chandan Hegde, Mrs.Hema Prabha, Mrs.Ramya

The department of MCA was established in the year 2000. MCA is offered as a two-year program with a current intake of 60. The program is approved by AICTE and is autonomous under the affiliation of Bangalore University. The course is intended to produce qualified professionals well-equipped with the necessary skills and knowledge to meet the growing demand in Computer Science and Applications. The course emphasizes programming languages, web technologies, software testing, software engineering and application development requisites to fulfill the IT requirements. In contrast, the essence of basic mathematics, statistical concepts, and computer fundamentals provide a vital foundation. Introducing practical teaching aids to enhance every aspirant's ability to identify, analyze, model, and solve a problem through computation has been the primary objective of this course.

In addition, the department offers various cutting-edge technologies as add-on courses and personality development workshops from industry experts to the student community. The MCA program has been designed to give equal stress on theoretical and practical learning in applied computer science. It is envisioned to deliver an updated industry-oriented education to meet the expectations of the leading corporations of Silicon Valley. The department of MCA has secured twelve University ranks and eight gold medals.

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MCA PROGRAM ROADMAP

Preinduction activities: Google Certification, Talk about yourself, Project HTML, Ted-talk review, Google form Know-how, Resume Building, online certifications.

Induction program: Orientation of comprehensive curriculum, Campus experience (Infra, ICT & Library), Student support activities, mental well-being, physical fitness, emotional balance, intro to clubs and forums activities, ideation/entrepreneurship, techno trends.

FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER	FOURTH SEMESTER	
python MySQL	django .NET Core	aws	On Board for Internship and Project work	**Value Added Courses**
Android Studio DevOps	• Machine Learning • UI and UX	• LaTeX • MongoDB		**Academic additions**

Preplacement training
Inhouse faculty conduct preplacement activity on various technical streams.

KWEC sessions (softskills)
A professional workshop for soft skill development.

Internship Drive
Training from Monster.com
A 40-hour pre-placement training from monster.com to enhance performance.

Programs for a 3600 growth

YES+ from AOL
A personality development program for positivity and lifestyle.(Life Skills)

Mentoring
At various levels, Faculty, Alumni, and Senior students.

Mock-interviews
Mock interviews by the alumni and industry experts. Orientation on taking interviews

SADHANA – THE IT CLUB (WEEKLY)

• **Communication skills**	• **Presentation skills**	• **Leadership**	**IT Club Activity**
• **Team building**	• **Technical skills**	• **Aptitude Tests**	
• **Panel / Group Discussion**	• **Case Studies**	• **Paper presentation / Publication**	
• **RPA using BluePrism**	• **Data Analytics**	• **Programming in R**	**MOOC and online courses**
• **RedHat Linux**	• **Cloud Architecture**	**UI / UX development**	

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PAPER PRESENTATIONS

Technology is changing every day. The change is not only expecting new skills to be acquired but also demanding new learning methods as well. One of the advantages of being an autonomous institute is to integrate innovative practices in academics to meet the changing needs. The department, to inculcate research into academics and to prepare the minds for research-oriented job roles, introduced paper presentations and publication as a part of the curriculum of the final year MCA program. As a result, students were granted an opportunity to put their ideas into research papers and present them at various conferences. More than 15 ideas were published (either through conferences or journals) in the first year of its experimental run. The following are the details of their achievements,

PAPER TITLE	AUTHORS	GUIDE
ONE-DAY STUDENT SEMINAR ON FINTECH INNOVATION AND SUSTAINABILITY		
AI Cultivation: Pioneering pathways using AI and FINTECH	Ms. Anusha D Ms. Bindu Yadav KS Ms. Roopashree M	Mrs. Bharathi Ramesh
Web Application Vulnerabilities Analysis: A Comprehensive Study on Identification, Exploitation, and Mitigation	Mr. K R Sharath Kumar Mr. Sujan M Ms. Harshitha C	Mr. Chandan Hegde **Best Paper Award**
Impact of Artificial Intelligence and Fintech in Health Care	Mr. Abdul Khadir Patel Ms. Divya A S Ms. Poojitha G	Mrs. Hema Prabha
A Research on the effect and development of Cyber Security challenges in big data for Banking Sectors	Mr. Manoj M Mr. Keerthiraj Moger Mr. Raghav T	Dr. Balaji K
NATIONAL CONFERENCE ON EMERGING TRENDS IN ARTIFICIAL INTELLIGENCE AND COMPUTER APPLICATIONS RESEARCH, CMRIT		
Social Engineering in Hacking	Ms. Shravani Chitturi Mr. Rajesh Balle Mr. Tarun Kumar Reddy	Dr. A Srinivas

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PAPER TITLE	AUTHORS	GUIDE
A review on Long-Term Sustainability of WordPress for Website Development	Mr. Puneeth.N Ms. Mounashree S Gowda Ms. Gaganashree P	Mrs. Bharathi Ramesh
Progressive web applications (PWas): examining potential benefits, bottlenecks, and best practices in creating PWas	Ms. Harshitha Bhat Mr. Rohith Y S	Mrs. Hema Prabha

NATIONAL CONFERENCE ON RECENT TRENDS OF COMPUTING & APPLICATIONS, DAYANAND SAGAR COLLEGE OF ENGINEERING

PAPER TITLE	AUTHORS	GUIDE
Beyond the Stethoscope: Harnessing Machine Learning to Detect Heart Disease	Ms. Bhoomika C V Ms. Srujana P Ms. Tejaswini C	Mrs. Hema Prabha **Best Paper Award**
Comparison of threats and measures for cloud security policy	Mr. Parikshit V Mulay Ms. Gayathri V B Ms. K. Keerthi Yadav	Mr. Chandan Hegde **Best Paper Award**
Modern Network Security: Analysis, Vulnerability, and Counter Measures	Mr. Pavana.D Mr. Balaji G M Mr. Veeresh K	Dr. Balaji K
Security and Vulnerability in Digital Payment Systems	Mr. Yaesh K B Mr. Gagan C Mr. Ajay Kumar M S	Mrs. Bharathi Ramesh **Best Paper Award**

THE INTERNATIONAL CONFERENCE DRISHTI 2023. VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR

PAPER TITLE	AUTHORS	GUIDE
A Comparative Study on the Performance Metrics of the Cloud Service Providers	Ms. Mamatha M Ms. Raksha R Yadav Ms. Sindhu V	Mr. Chandan Hegde
Human-Computer Interaction in Augmented Reality	Mr. Naveen Kumar Ms. Meghana T G Ms. Shrushti G	Mrs. Bharathi Ramesh

PAPER TITLE	AUTHORS	GUIDE
The Future of the Justice System in India	Mr. P Seshadri Ms. Sushmitha C Ms. Bhavana P	Dr. Balaji K
The Algorithmic Intelligence of Self-driving Cars	Ms. Lahari M L Ms. Rachana U R	Dr. A Srinivas

INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH IN ENGINEERING AND MANAGEMENT, VOLUME 07 ISSUE 07, JULY 2023, PAPER ID: IJSREM24832

A Comparative Study of Design Ideas for a Modern-day Computing System	Ms. Deepali R Neethigere Mr. Vikas V Mr. Hemanth S	Dr. A Srinivas

INTERNATIONAL JOURNAL OF RESEARCH PUBLICATION AND REVIEWS, PAPER ID: IJRPR-49434

A Comparative Study on Correlation of Brain and Digital Logic	Ms. Pooja V Ms. Kulkarni Siddhi Mr. Revanth B C	Dr. A Srinivas

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THE BEST PAPER AWARDS

Four of the seventeen published papers were awarded "The Best Paper". The department heartily congratulates all the authors for their effort to put their work forward. Special praise to the list of students who grabbed the best paper awards on various occasions.

Mr. K R Sharath Kumar, Ms. Harshitha C and Mr. Sujan M at One-Day Student Seminar on FinTech Innovation and Sustainability, Surana College(Autonomous), Southend Road on 27th June 2023

Mr. Parikshit V Mulay, Ms. Gayathri V B and Ms. K. Keerthi Yadav at National Conference On Recent Trends of Computing & Applications, Dayanand Sagar College of Engineering on 28th July 2023

Ms. Bhoomika C V, Ms.Tejaswini C and Ms. Srujana P at National Conference On Recent Trends of Computing & Applications, Dayanand Sagar College of Engineering on 28th July 2023

Mr. Yaesh K B, Mr. Gagan C and Mr. Ajay Kumar M S at National Conference On Recent Trends of Computing & Applications, Dayanand Sagar College of Engineering on 28th July 2023

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CULTURAL EVENTS - SRUJANA

Cultural competitions are vibrant and captivating events that showcase the rich tapestry of human heritage and traditions. These contests provide a platform for students and staff to express their unique identities, celebrate diversity, and preserve their cultural legacies. This academic year various competitions were organized with a theme of "Indian Festivals" under SRUJANA cultural club on the **26th and 27th of JULY 2023**. Students enjoyed an ethnic day on **27th JULY 2023** in different ethnic attire. More than 50 students from the department of MCA actively participated.

Competitions organized:

- Mehendi
- Rangoli
- T-Shirt Painting
- Cook without Fire
- Solo and Group song
- Solo and Group dance
- Ramp Walk

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GLIMPSES OF SRUJANA

GLIMPSES OF SRUJANA

ANNUAL SPORTS MEET

The Department of Physical Education conducted the annual sports meet for the post-graduation programs commenced on 28th July 2023. Many events were organized for students and faculty. More than 250 participants from five PG programs across SEI were engaged in various activities. The 2-day event included the following indoor and outdoor activities,

SL. NO	EVENT	CATEGORY
1	Chess	Boys & Girls
2	Carrom -Doubles	Boys & Girls
3	Table Tennis	Boys & Girls
4	Tug of War 7+3	Boys & Girls
5	Throwball 7+3	Girls only
6	Cricket 11+4	Boys only

THE DEPARTMENT OF MCA @ ANNUAL SPORTS MEET

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SADHANA - THE IT CLUB

The Concept of Sadhana was inducted into the MCA Department by Dr. A Srinivas in the academic year 2005-2006. "Practice makes man perfect" is an old saying and this word is a new world order for that, we have changed the quote to "Practice for Perfection", which is the caption for our IT club called SADHANA. Sadhana is a weekly event conducted by the students, for the students to improve their soft skills and to practice certain skills needed for their fruitful IT careers.

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SADHANA VALEDICTORY - 2022

The valedictory function of the 17th Season of Sadhana – The IT Club was held on 5th June 2023. Alumni of the department Mr. Ashwin Bharadwaj, Software Developer Senior Specialist, Nasdaq, was the chief guest for the event. The event commenced with a welcome address by Prof. Bharathi Ramesh. Dr. A Srinivas, Director of L&D, SEI, addressed the gathering.

A complete financial report of the season was rendered by Ms. Pooja, Finance Committee of the IT club. The director of the MBA program, Dr. Ranga Raju wished the participants. The chief guest for the day Mr. Ashwin delivered a keynote address on DevOps and the importance of constant skill upgrades in IT. The dignitaries unveiled the second edition of "The Impressions" – A department magazine. The principal, Dr. DNS Kumar delivered the presidential address. The event concluded after handing over the IT club responsibilities from the senior batch to the junior batch.

GLIMPSES OF THE EVENT

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NEW TEAMS AND COMMITTEES OF SADHANA

Sadhana is an IT club run by students. A team of four students are formed every year. These teams will compete in events spread across two seasons. Every season they decide a list of events to be held. The events are shortlisted after a prolonged discussion with the participants and the faculties of the department. A balanced mixture of technical and non-technical events is selected.

All the events of Sadhana are orchestrated by a student coordinator and are supported by the functionaries in the form of four core committees: Quality, Finance, Hospitality and Publicity. The coordinator and the committees are selected by considering the results of a voting and an elongated interview process.

IT Elites: Shanth Kumar, Vachana, Pushpa, Srikanth

Tech Globe: Srinivas, Poojashree, Maitreyi, Mahesh

Bainiacs: Yeshwanth, Pallavi, Meghana, Sameera

Geek Spirits: Varun, Deeksha, Harshitha, Rajashekhar

Wizards: Rakeen, Rosemary, Pushya, Venkateshwar

Tech Titans: Leelavathi, Pavithra, Snehalatha

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Techie Tribe: Sudeep, Shifa, Nayana, Thejas

Runtime Terrors: Anilkumar, Lakshmi, Durga, Manikanta

Supersonics: Umar, Bharath, Himavamshi, Nishanth

Dev Kings: Pavan, Ravikumar, Nithish, Abhishek

Tech co-leaders: Prakash, Varsha, Chandrika, Dhanumjaya

Techno Sparks: Sumanth, Vaneesha, Ruchitha, Vinayak

Cloud Stroms: Punith, Amrutha, Akshatha, Girish

Tech Fauget: Bharath, Kousalya, Gowthami, Vamshi

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Recursion: Uday, Sushmitha, Navya, Samahitha

STUDENT COORDINATOR
Ms. Chandana

PUBLICITY COMMITTEE
Mr. Sumanth Bharadwaj,
Ms. Deeksha R M,
Mr. Sudeep Chowhan

HOSPITALITY COMMITTEE
Mr. Shanth Kumar,
Ms. Pushpa H M
Mr. Thejas Prasad

QUALITY COMMITTEE
Ms. Pallavi V S,
Mr. Prakash R,
Ms. Gowthami V

FINANCE COMMITTEE
Mr. Umar ameen,
Mr. Vamsi Krishna

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SADHANA 2023 SEASON-1: SCHEDULE

DATE OF EVENT	ORGANIZING TEAM	EVENT NAME	APTITUDE TOPICS
10-08-2023	Super Sonics	"Career roadmap" - Your career your priority.	Patterns, seating arrangements
17-08-2023	Dev kings	"Make it Work" - A Bug is an undocumented feature	C and java
21-08-2023	IT Elites	"Conference Corner"- Speak your thoughts	Company based
24-08-2023	Recursion	"Sell me this" - Incredible sale for Incredible people	Ratio and proportions
31-08-2023	Runtime terrors	"Dig the Statement"- Solution awaits with Research	Verbal ability
04-09-2023	Brainiacs	"Query Quest"- Unlock knowledge with SQL Queries	Partnership, clocks and simple interest
08-09-2023	Tech Titans	"Code story" - Unlocking the secrets of Code	Permutations and combination
14-09-2023	Tech Fauget	"Code Chef" - Programming through hurdles	Technical questions
21-09-2023	Techno Sparks	"Code Craft"- Turning ideas into websites.	Accenture paper
25-09-2023	Techie Tribes	"Zen Talks" - A panel discussion forum on tech ethics.	Company paper
29-09-2023	Tech Globe	"Design Desk" - A web design like never before	TCS paper
05-10-2023	Wizards	"Model Minds" - Future Of Creativity	Infosys Paper
09-10-2023	Tech co-leaders	"Data analysis Olympiad" - Realizing the potential of Data Visualization.	Permutation and combination,ratio analysis
13/10/0023	Cloud Stroms	"The Seekers Of Secrets"- The thrill of Treasure Hunt	Networking,HTML,C
19-10-2023	Geek spirits	"Patch Up Paperwork" - Transforming Paper into masterpiece	Data structures

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CHATGPT

(Embracing the Promise and Tackling the Challenges of the Future)

In the realm of modern technology, the emergence of ChatGPT, an extraordinary language model crafted by OpenAI, has sparked awe and curiosity alike. Designed to engage in interactive conversations, ChatGPT has become a prominent player in numerous applications, captivating industries ranging from customer service to education. As we delve into the world of this cutting-edge language model, we shall explore its exciting advantages and the thought-provoking challenges it presents.

The Perks of ChatGPT

Natural Language Understanding:
ChatGPT boasts remarkable proficiency in grasping natural language, bestowing a human-like interaction, making conversations with AI surprisingly engaging.

A Versatile Ally:
Adaptable and flexible, ChatGPT can be seamlessly integrated into various domains, catering to specific industries' unique needs.

Saving Time and Costs:
By automating repetitive tasks, human agents can focus on tackling more intricate challenges and reduce the response times.

A Round-the-Clock Companion:
Unlike its human counterparts, ChatGPT operates tirelessly 24/7, boosting customer satisfaction and elevating the quality-of-service delivery.

Rapid Iteration and Improvement:
Being an AI language model, ChatGPT benefits from continuous learning and iteration. With the accumulation of data and fine-tuning processes, its performance can improve over time.

The Challenges to Ponder

The Illusion of Understanding:
Despite its brilliance, ChatGPT lacks genuine comprehension and consciousness. It may occasionally generate responses that are contextually inaccurate or nonsensical.

The Sensitivity Conundrum:
ChatGPT's responses are sensitive to the phrasing of user queries, leading to varying outcomes for similar questions. This might require users to rephrase their questions repeatedly, potentially causing frustration.

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Addressing the Bias Question:
While ChatGPT is trained on vast datasets, it can inadvertently perpetuate biases present within the data. This raises concerns about biased responses.

Ethical Considerations:
As users interact with ChatGPT, there is a risk of inadvertently sharing sensitive information leading to data breaches and privacy concerns.

The Data Dilemma:
The quality and diversity of the training data heavily influence ChatGPT's performance. Limited or biased data may hinder the model's accuracy.
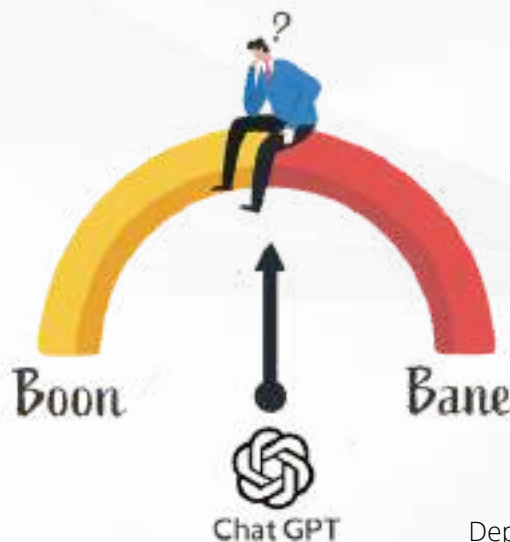
Impact on Job Roles:
With automation replacing routine tasks, there is a growing concern about the displacement of human workers from their jobs, particularly in customer service and support sectors.

Balancing Technology and Human Touch:
While ChatGPT offers efficiency, one must find the delicate balance between leveraging technology and preserving the invaluable human touch in customer interactions.

ChatGPT emerges as a brilliant achievement in the realm of conversational AI, captivating us with its language prowess and versatile applications. However, we must tread carefully, acknowledging its limitations and ethical challenges.

As we move forward, we must embrace ChatGPT responsibly, acknowledging its limitations and working collaboratively to find solutions to the workforce challenges it presents. By fostering a future where humans and AI complement each other's strengths, we can build a society that harnesses technology for the betterment of all, leading us toward a harmonious and progressive coexistence.

Boon   Bane

Chat GPT

Dr. A Srinivas
Director - L&D,SEI
Director - MCA

Dept. of MCA, Surana College, Bangalore

DIGITAL DETOX

(Unplug to Recharge and Disconnect to Reconnect)

Entering a class with the hopes of one hour of knowledge transfer, I observe vibrant students with sleep deprived eyes. Well, Is it due to time well spent on class preparations? ...could be but the undeniable truth is those are the hungry eyes which turn to the three demi gods of social media: WhatsApp, Facebook and their sibling Instagram for comfort and escapism. Is this addiction prevalent only among students? No. A survey says that 66% of employees admit that checking their phone for work-related messages can make them feel stressed (which they do before they go to bed (64%) and first thing in the morning (70%). Heavy smartphone use can cause changes in your brain. Every scroll or swipe sends a hit of dopamine to the same areas of your brain that respond to dangerous drugs like cocaine. When we are stressed, are we opening our phone rather than seeking solace from a family member, friend or a mentor? then it's time for Digital Detox

Well, Digital Detox is a period during which you intentionally reduce the amount of time you spend online on your devices. Try the following tips if you feel that there is a strong need in your life to come out of Digital addiction

Identify When You Use Devices
You must ask yourself, "Do you check your phone first thing in the morning and the last thing at night?". If that's the case, you can be sure that you're somewhat addicted to technology, and it may take you some time to take control of your life and not let technology control you. Abstaining from gaping at your phone during class hours could be one way of digital detox.

Put Your Phone Away While Eating
Practice mindful eating from now. It will help you enjoy the food and fill your stomach without having to eat in excess.

Use a laptop to only Complete Assignments
The primary usage of laptops is to complete assignments. However, watching movies or internet surfing has become more popular among the students. Turn-off the computer immediately after completing the assignments to avoid distraction.

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Set Small Goals

Set small goals like reducing your smartphone usage by 2 hours. When you do it for a week, increase the time, and slowly you'll develop a habit.

Turn Off Notifications

You must disable notifications for the apps you use the most (WhatsApp, Instagram, Facebook, and YouTube). Not receiving notifications from your preferred programs can make you feel as if something is missing at first. But this will only last a short time. You won't even think about these applications once you've gotten used to them.

A digital detox can improve our concentration, which will benefit our academic performance. Compared to SMS, emails, or chat threads, face-to-face communication is more effective. Our minds begin to think and have a lot of creative potential when our mind space is clear of games, pictures, and annoying status updates. Nothing can bring us more happiness and contentment than a real life filled with meaningful connections.

"Believe and accept that offline is the new luxury"

Prof. A Hema Prabha
Department of MCA

DEVOPS

(Harmonizing Innovation and Reliability)

In the digital kingdom of Binaryland, the disputing tribes of Devs and Ops had a rivalry as ancient as the code itself. Devs would conjure wild features while Ops frantically tried to keep the servers from crashing. One fateful day, a wizard named DevOps appeared with a quirky grin and a red lollypop in hand. "Fear not, my friends!" he exclaimed, "I brought you the magic of cooperation!" As the Devs and Ops reluctantly teamed up, they soon discovered that laughter and collaboration were the secret ingredients for creating software wonders. And so, the legend of DevOps was born, reminding the kingdom that when Devs and Ops unite, they can conquer any digital quest with innovation.

In this rapidly evolving world of technology, software development has become a crucial aspect of every industry. To meet the ever-increasing demands of the market, developers and operations teams are now collaborating more closely than ever before. This collaborative approach, known as DevOps, emerged as a game-changer, revolutionizing the software development landscape. DevOps is the union of people, processes, and technology that provides continuous value to development (dev) and operations (ops).

The DevOps lifecycle consists of eight phases – Plan, Code, Build, Test, Release, Deploy, Operate, and Monitor representing the processes, capabilities, and tools needed for development, deployment, and operations. Throughout each phase, teams collaborate and communicate to maintain alignment, velocity, and quality.
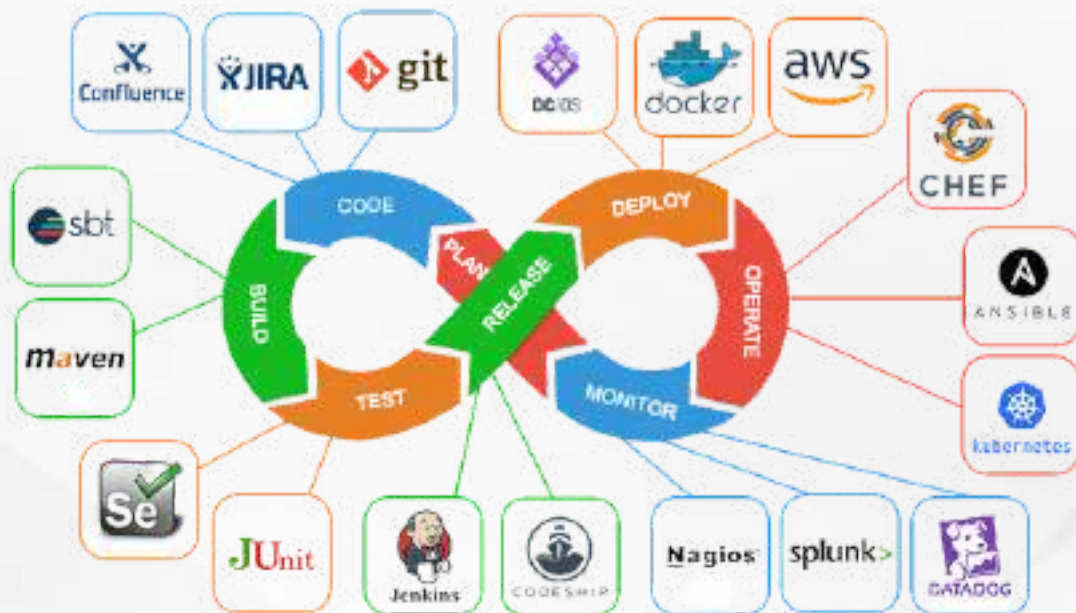
Advantages of DevOps:
- Faster Delivery of Software
- Improved Collaboration
- Enhanced Quality and Stability
- Scalability and Flexibility
- Reduced Risk and Faster Recovery
- Improved Customer Experience

Many companies have adopted DevOps practices to streamline their software development and IT operations. some well-known companies that were known for using DevOps are **Amazon, Google, Microsoft, Facebook, Netflix, Etsy, Twitter, LinkedIn, Adobe, Salesforce, IBM,** etc.

DevOps Tools

DevOps tools help software teams to improve collaboration, reduce context-switching, introduce automation, and leverage observability and monitoring. Some DevOps tools make the automation and integrations needed across functional teams seamless, open, and scalable. Here are some of the names which stand out amongst the list of DevOps tools:

In the ever-evolving landscape of software development, DevOps remains a guiding light, driving organizations toward greater efficiency and success. So, let us embrace the principles of DevOps and move forward together, delivering exceptional software solutions and exceeding our customers' expectations.

Prof. Bharathi Ramesh
Department of MCA

MCA BATCH 2022-2024

At the KWEC workshop held at Microlabs Guest House, Bangalore

*"The path for perfection is not easy.
Yet, we try, we have the will and the potential"*

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