

May, '24 Edition

The byte



The Computer Science
Department Society
of
Bharati College,
University of Delhi

Technophiles *Bharati*

BYTE BY BYTE, WE IGNITE
TECH INSIGHT



TECHNOPHILES BHARATI: THE COMPUTER SCIENCE DEPARTMENT

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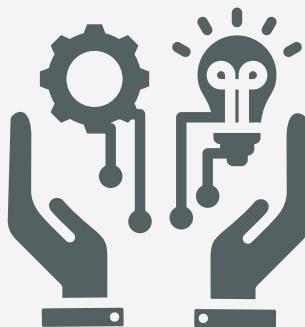
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TECHNOPHILES TEAM

TECHNOPHILES: THE COMPUTER SCIENCE DEPARTMENT

Welcome to Technophiles, the student-led center for innovation and exploration within the Department of Computer Science at Bharati College. Established in 2023, Technophiles aims to nurture a passion for technology and innovation.



Technophiles is a vibrant, student-run initiative by the Department of Computer Science at Bharati College, University of Delhi. Founded in 2023, our name embodies our mission: 'Fostering a love for technology (as technology enthusiasts are often called "Technophiles"). We believe learning extends beyond textbooks, offering a platform for students to dive deeper into the exciting world of

computer science, experiment with innovative ideas, and connect with a passionate community of fellow tech enthusiasts.

"Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is the most important."

– Bill Gates



INTRODUCING OUR TEAM



TECHNOPHILES'24

MEET OUR TEAM



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MEET OUR TEAM



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Moni
(Social Media
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Communication
Officer)



Priyanka Devi
(Director of
Public
Relations)

CONFUSED?

WHAT'S THE AIM OF OUR TEAM?



LET'S EXPLORE



The byte

OUR AIM:

Empowering Future Tech Leaders

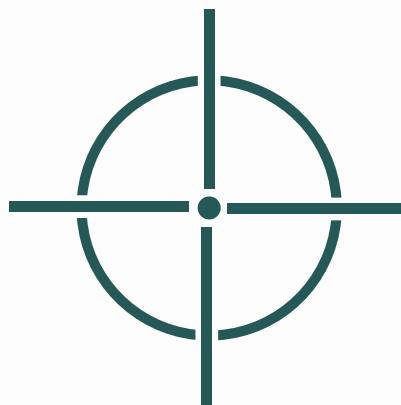
We aim to create a dynamic and collaborative environment where students can develop their technical skills through hands-on experiences. By going beyond the curriculum, we offer workshops and events featuring industry experts, fostering a deeper understanding of computer science concepts and their real-world applications. We encourage students to explore their creative potential by providing opportunities to experiment with new technologies and participate in coding competitions.

Ultimately, Technophiles empowers students to become future leaders and innovators in the ever-evolving tech industry.

"The most important thing about technology is how it changes people."
- Jaron Lanier



WHAT'S THE VISION OF TECHNOPHILES?



PROMISE ME -
YOU WILL KEEP THIS A
SECRET

VISION: Shaping the Future of Tech Education



The Future of Tech Education: Empowering Minds, Inspiring Innovation, and Transforming Tomorrow.

Our vision is to make Technophiles synonymous with excellence in Computer Science education at Bharati College. We strive to be a leading force in fostering a culture of innovation and exploration within the department. We envision a future where Technophiles provides students with the resources and support they need to excel academically and translate their knowledge into practical solutions.

We believe in nurturing a diverse and inclusive community where students from all backgrounds feel comfortable exploring their interests. We are committed to helping them develop their technical expertise. By providing a platform for collaboration and knowledge sharing, Technophiles aims to empower the next generation of tech leaders who will shape the future of the industry.

"The art of debugging is figuring out what you really told your program to do."
- Andrew Singer



"Welcome to our Tech Trivia Challenge! Ready to dive into the fascinating world of technology and test your knowledge?"

Let's see if you have what it takes to prove your tech prowess. Let's get started!"





1. Which of the following sorting algorithms has the best average-case time complexity?

- a) Bubble Sort
- b) Quick Sort
- c) Merge Sort
- d) Insertion Sort

2. Which data structure is used to implement a LIFO (Last In, First Out) system?

- a) Queue
- b) Stack
- c) Linked List
- d) Array

3. What does the term "Two-Phase Commit Protocol" refer to?

- a) A protocol for distributed transaction management ensuring atomicity
- b) A protocol for deadlock prevention in distributed databases
- c) A protocol for ensuring data consistency across multiple replicas
- d) A protocol for optimizing query performance in distributed databases

4. In computer networks, what does the acronym LAN stand for?

- a) Local Area Network
- b) Large Area Network
- c) Long Area Network
- d) Light Area Network

5. Which of the following is a non-volatile memory type?

- a) RAM
- b) Cache Memory
- c) ROM
- d) Register

6. What is the primary purpose of an operating system?

- a) To manage hardware resources
- b) To provide entertainment
- c) To enable networking
- d) To perform calculations

7. Which of the following programming languages is primarily used for artificial intelligence and machine learning?

- a) Java
- b) Python
- c) C++
- d) PHP

8. Which of the following protocols is used for secure communication over the internet?

- a) HTTP
- b) FTP
- c) SSH
- d) HTTPS

9. What does the acronym GUI stand for in computing?

- a) General User Interface
- b) Graphical User Interface
- c) Guided User Interface
- d) Group User Interface

10. In the context of databases, what does ACID stand for?

- a) Atomicity, Consistency, Isolation, Durability
- b) Additivity, Consistency, Integrity, Durability
- c) Atomicity, Concurrency, Isolation, Durability
- d) Additivity, Concurrency, Isolation, Durability

11. Which of the following algorithms is used for finding the shortest paths in a graph with non-negative edge weights?

- a) Bellman-Ford algorithm
- b) Floyd-Warshall algorithm
- c) Dijkstra's algorithm
- d) Prim's algorithm

12. In the context of operating systems, which of the following scheduling algorithms can lead to starvation?

- a) First-Come, First-Served (FCFS)
- b) Shortest Job Next (SJN)
- c) Round Robin (RR)
- d) Priority Scheduling

ANSWER

It's time to check the correct answer

- 1: c) Merge Sort
- 2: b) Stack
- 3: a) A protocol for distributed transaction management ensuring atomicity
- 4: a) Local Area Network
- 5: c) ROM
- 6: a) To manage hardware resources
- 7: b) Python
- 8: d) HTTPS
- 9: b) Graphical User Interface
- 10: a) Atomicity, Consistency, Isolation, Durability
11. c) Dijkstra's algorithm
12. d) Priority Scheduling



**IT'S TIME TO BID
FAREWELL TO OUR
SENIORS AND WISH
THEM GOOD LUCK!**



TECHNOPHILES
THE COMPUTER SCIENCE DEPARTMENT



FAREWELL

2024

10 MAY
2024

Our departing colleagues will be remembered
with a celebration, goodbye but not farewell.



Room No. 201, Bharati College

BIDDING FAREWELL TO OUR SENIORS

FAREWELL '24

Date: 10th May 2024

Time: 10 AM onward

Venue: Room 201, Bharati College, University of Delhi



Moni
(Social Media Lead)



Ayushi
(3rd Year Representative)

Moni, Social Media Lead

As the Social Media Lead, Moni revolutionized the online presence of Technophiles. Through innovative strategies and relentless effort, Moni managed to create a dynamic and engaging social media landscape that not only kept the department's community connected but also attracted a wider audience. Under her leadership, our social media platforms saw a significant increase in followers and interaction, making Technophiles a well-known name in the digital realm.

Moni's creative campaigns, insightful posts, and adept handling of digital communication have set a high bar for future social media teams. Their ability to adapt to the fast-changing trends and maintain a cohesive brand image has been commendable. Beyond their technical skills, Moni's approachable nature and willingness to mentor juniors have left a lasting impression on everyone in the department.

Ayushi, 3rd Year Representative

Serving as the 3rd Year Representative, Ayushi has been the voice and advocate for their batch. She played a pivotal role in bridging the communication between students and faculty, ensuring that the concerns and suggestions of the students were heard and addressed. Ayushi's tenure was marked by proactive initiatives to enhance the academic and extracurricular experiences for their peers.

With her leadership, the third-year students navigated through some of the most challenging and defining moments of their college life. From organizing study groups and seminars to coordinating departmental events, Ayushi's contributions have been invaluable. She also showed exceptional organizational skills and an unwavering commitment to the welfare of their batchmates, fostering a sense of unity and support.



The Technophiles family at Bharati College bids a heartfelt farewell to two of our outstanding seniors, who have left an indelible mark on our department with their dedication and contributions. As we celebrate their achievements and wish them well on their future endeavors, let's take a moment to honor their journeys and the legacy they leave behind.

As Ayushi and Moni step into the next chapter of their lives, we take immense pride in their accomplishments and are confident that they will continue to excel and inspire wherever they go. Their tenure at Technophiles has set a precedent for dedication, innovation, and leadership. The entire department wishes them the very best in all their future endeavors.

The legacy left by these two remarkable individuals will undoubtedly continue to inspire future generations of Technophiles. While farewells are never easy, we take solace in the fact that their contributions have left an indelible mark on our department, one that will be remembered and cherished for years to come.

HOW AI HAS
EVOLVED ?

WHAT'S
TECHNOLOGY
ALL ABOUT?

IS COMPUTER
SCIENCE
INTERESTING?

WILL
TECHNOLOGY
AFFECT OUR
FUTURE?

TURN THE PAGE AND YOU
WILL GET TO KNOW ABOUT IT



In the age of AI, data is the new gold, and algorithms are the miners.

Technology is not inherently good or bad; it's how we choose to use it that defines its impact.

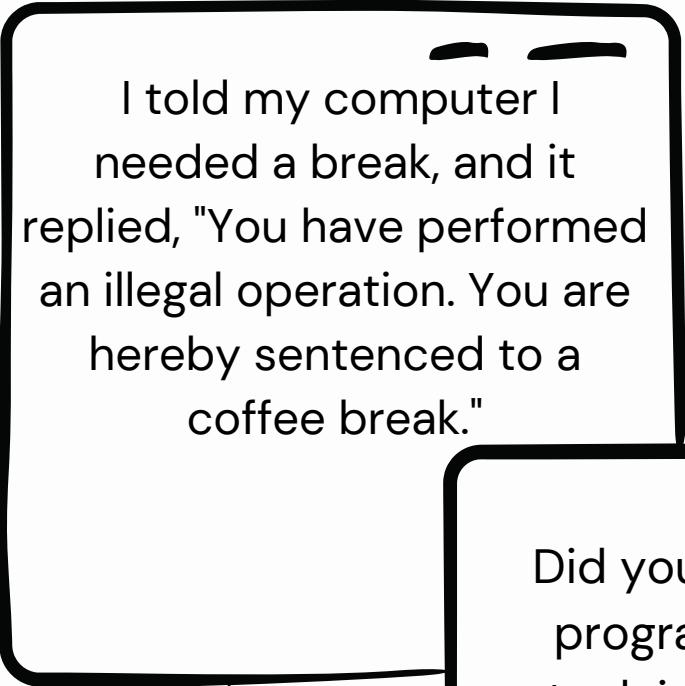
The future is not about humans versus machines; it's about humans working alongside machines to amplify our potential.

The first AI program, a checkers-playing program, was created by Christopher Strachey in 1951 on the Ferranti Mark 1 computer at the University of Manchester.

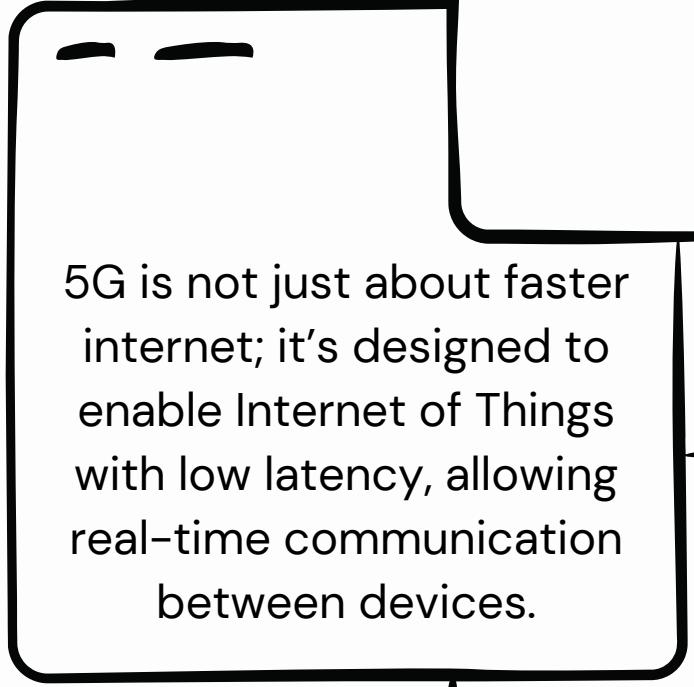
The first successful use of AI in medicine was MYCIN in the 1970s, which diagnosed bacterial infections and recommended antibiotics.

The term "Artificial Intelligence" was coined by John McCarthy in 1956 during the Dartmouth Conference, which is considered the birthplace of AI as a field.

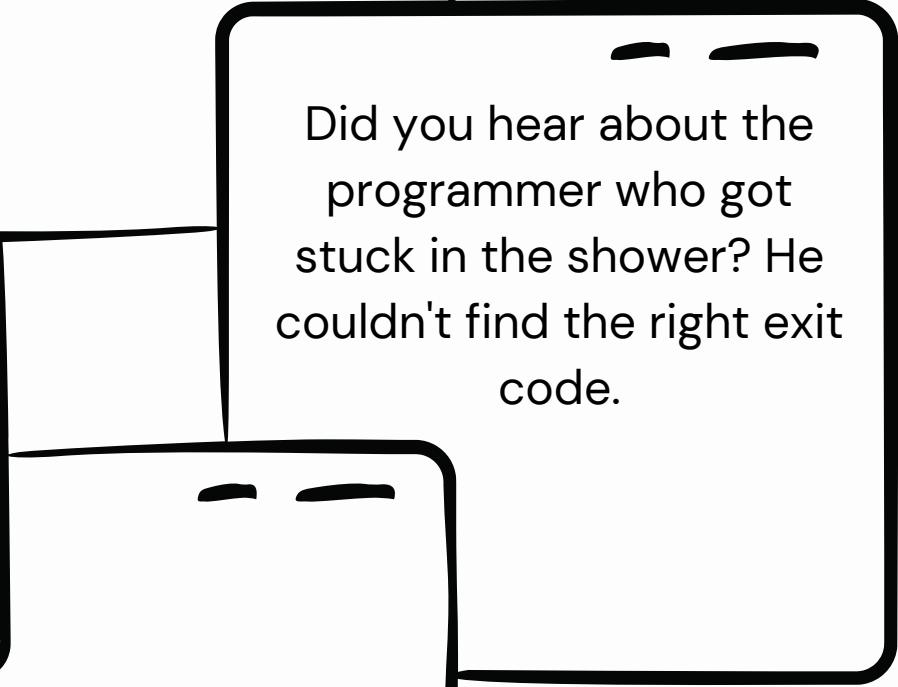
The concept of AI has been explored in films since the early 20th century, with "Metropolis" (1927) featuring one of the first representations of a robot.



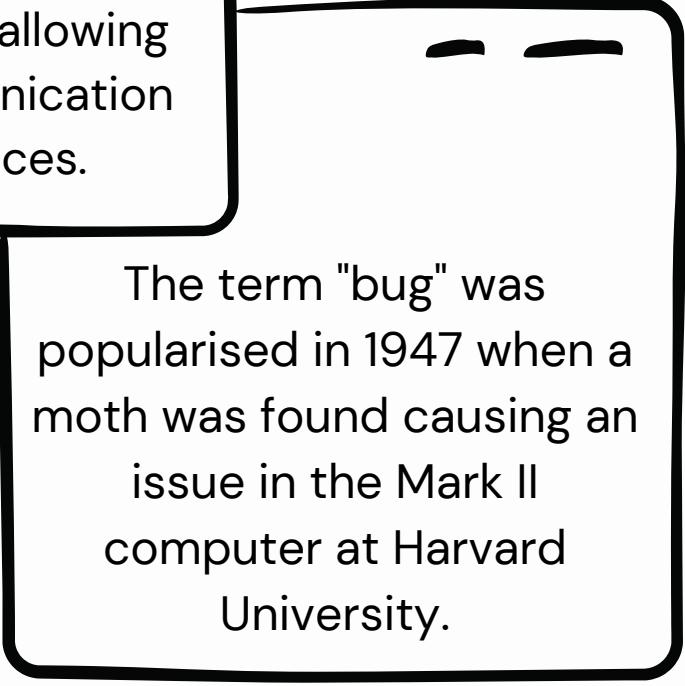
I told my computer I needed a break, and it replied, "You have performed an illegal operation. You are hereby sentenced to a coffee break."



5G is not just about faster internet; it's designed to enable Internet of Things with low latency, allowing real-time communication between devices.



Did you hear about the programmer who got stuck in the shower? He couldn't find the right exit code.



The term "bug" was popularised in 1947 when a moth was found causing an issue in the Mark II computer at Harvard University.

COMING SOON

Stay tuned!

Let's expand our
knowledge in Tech with
Technophiles