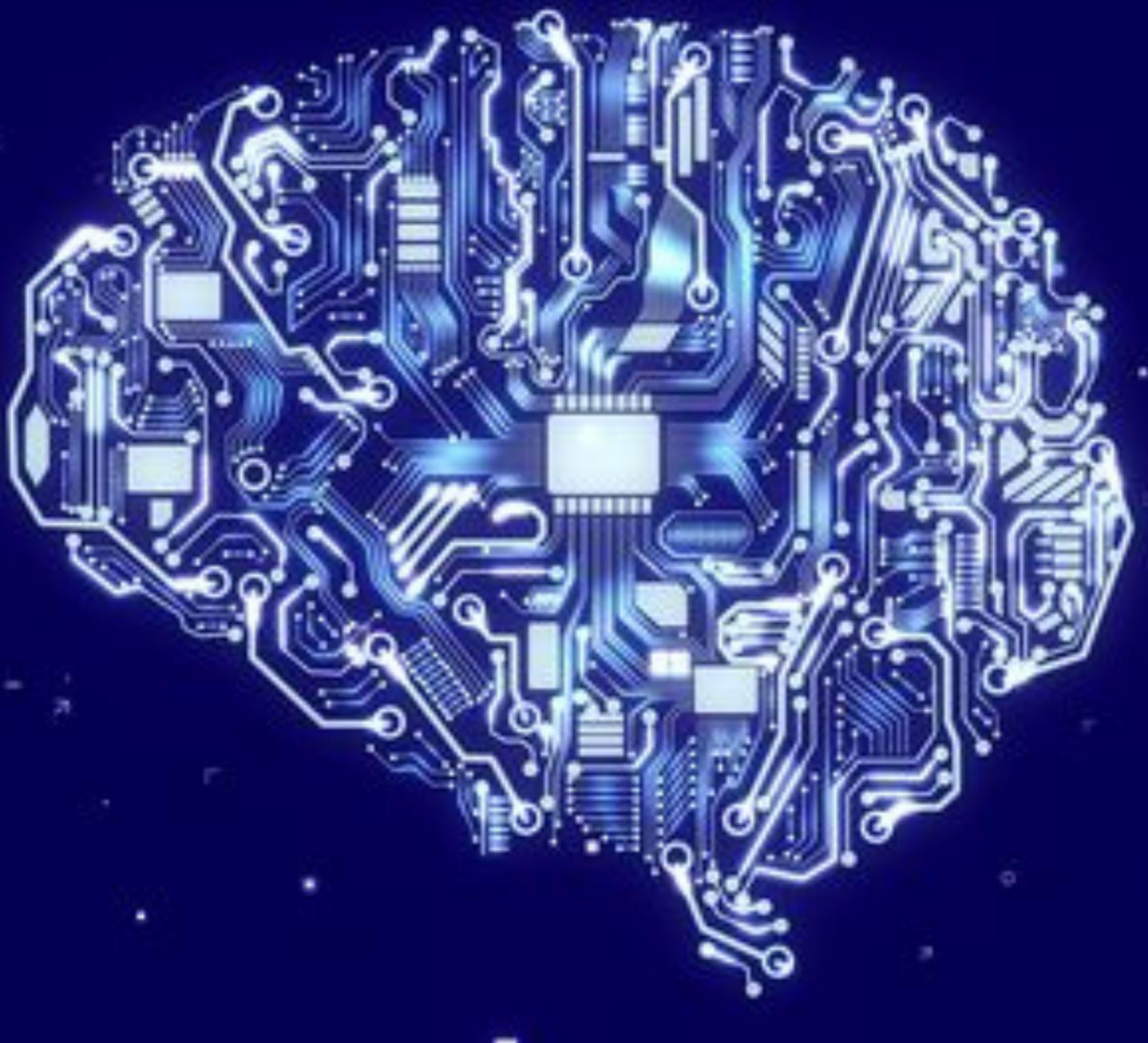
MINDTRONICS

Dept. of ECE Magazine, Volume - 7, Issue 4
April- June 2024



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (A)
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MINDTRONICS

Dept. of ECE Magazine   Apr. - Jun., 2024   Vol. 7, Issue - 4

Focus & Scope:

A department magazine encourages the students to think, present and draft that help them in developing their talent, technical and writing skills. Also it helps them to improve their power of thinking and strengthen their imagination. Our department magazine MINDTRONICS consists of Articles on Emerging Developments in Electronics, Cartoons, Poetry, Drawings and Review Writings on Latest Happenings collected from department students.

Contact

Dr. T. Satyanarayana - 9346429163
A. Kamal Phaneendra - 9030729999

Send your articles to mail ID
mindtronics.lbrce@gmail.com

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Foreword

Shri. L. R. N.K. Prasad Reddy,
Chairman.

It's wonderful to hear about the success and creativity of the Department of Electronics and Communication Engineering and their magazine, "Mindtronics." Creating a platform like this not only showcases the talents of students but also contributes to the overall growth and development of the department. Expressing appreciation for the efforts of the entire team, including the Faculty Coordinators, is a great way to acknowledge their hard work and dedication. It's commendable that the department has taken the initiative to nurture and celebrate the talents of its students.

The Department of Electronics and Communication Engineering (ECE) adopts the acronym "ELECTRONICS" to embody its commitment to perpetual learning, creativity, research, innovation, and societal impact. The magazine reflects the collaborative spirit of the ECE community, with the students' team praised for their hard work in curating a diverse and impactful edition. The Faculty Coordinators are acknowledged for their valuable guidance. "Mindtronics" is seen not just as a publication but as a catalyst for the continual improvement of students' overall skill sets in the field of electronics and communication engineering.

Shri. G. Srinivasa Reddy,
President, LBCT

Foreword

Electronics and Communication Engineering (ECE) involves researching, designing, developing, and testing electronic equipment used in several engineering systems. It gave me great satisfaction to know that the Department of Electronics and Communication Engineering has come up with its own magazine, "Mindtronics". The way they presented it was unique, very creative and hope it will serve as a motivational and technological source for the students to exhibit their inherent talents and improve their skills. I'd like to express my appreciation to the whole team members of Mindtronics including Faculty Coordinators who really made it possible.

Dr. K. Appa Rao,
Principal

The branch ELECTRONICS stands for "Ever Learning, Ever Creative Through Research Onsetting New Inventions Comforting Society". The Department of ECE's magazine, "TechConnect," recently revised as "Mindtronics," that has been a source where members of the department are invoked to share their ideas, talents which includes technical, general aspects, and I strongly believe it is a wonderful platform to showcase their creative skills. I appreciate the entire students' team of Mindtronics for their efforts and hard work that they put in to bring out this edition. I extend my sincere thanks to Faculty Coordinators for their fabulous guidance. I hope this magazine gets strengthened further in all aspects to improve the overall skillset of students.

Dr. Y. Amar Babu,
Proffesor & Head, ECE

Table of Contents

1 EMERGING DEVELOPMENTS

2 REVIEW WRITING ON LATEST HAPPENINGS

3 DRAWINGS

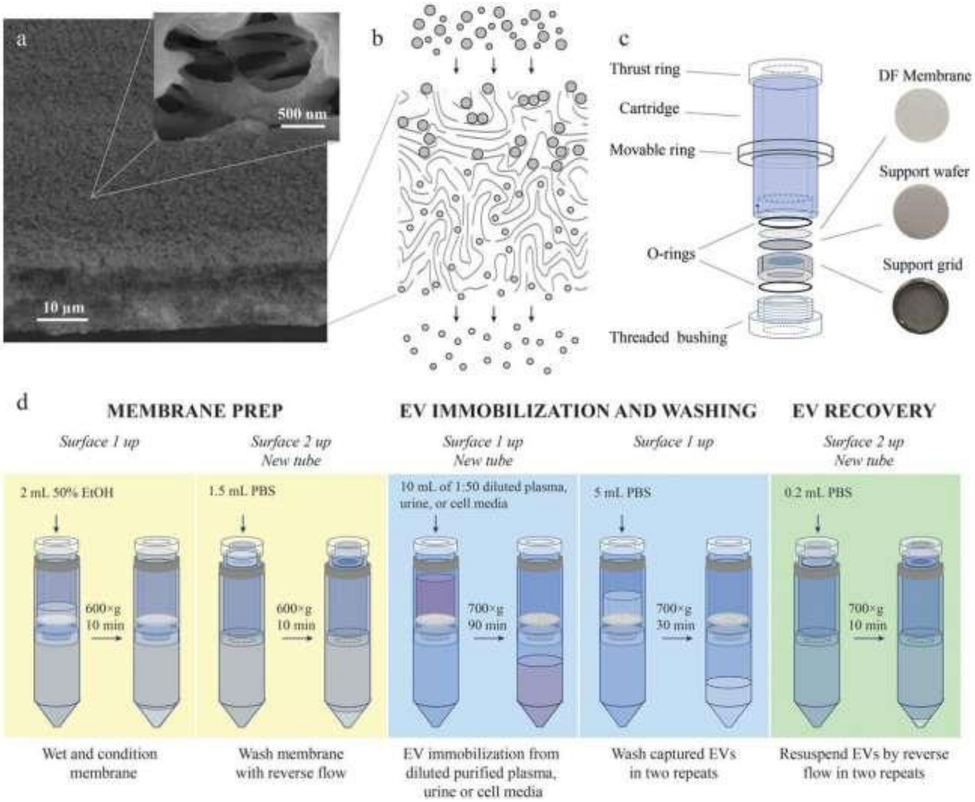
4 POETRY

5 PUZZLES

6 MORAL STORIES

EMERGING DEVELOPMENTS

Capturing extracellular vesicles: A new technology for isolating disease markers



Biophysicists from Skoltech, MIPT and their colleagues from the company Prostagnost have created a new technology for isolating extracellular vesicles (EV) from biological fluids. Studying vesicles is essential for the diagnosis and treatment of various diseases, including cancer. The new technique not only outperforms methods known to date in purity and yield of EVs, but also is simple, fast, inexpensive and can run on standard lab hardware. The research was published in the Journal of Extracellular Vesicles.

Our body cells "communicate" with each other by releasing signaling molecules into the blood flow. For the molecules to safely reach the target, they are encapsulated in tiny, nano-sized vesicles, EVs, that operate as a delivery system. EVs from healthy and diseased cells have different contents, which forms the basis for diagnosis. Vesicles secreted by unhealthy cells contain a whole variety of molecules that serve as a biomarker of a disease. Studying the biomarkers helps both to diagnose a disease and monitor the treatment by analyzing changes in the number of EVs that contain the selected markers.

However, the question arises as to how to isolate these miniscule carriers. Only EVs should be picked out from among the great multitude of molecules in biological fluids in order to identify the protein molecules they contain, which can be biomarkers of a disease or a sign of good health. Depending on which nucleic acids, such as mRNA or DNA, or proteins are found inside or on the surface of an EV, a conclusion is made on the patient's prospects. Therefore, it is important that these studies be performed quickly, efficiently and at low cost.

Vasiliy Chernyshev, lead author and research scientist at the MIPT Laboratory for the Development of Innovative Drugs and Agricultural Biotechnology and the Skoltech BioPhotonics Lab, says that "currently, several generally recognized methods exist for isolating vesicles, but they are either too cumbersome or requiring specialized equipment, such as an ultracentrifuge. Not every clinic can afford this, and besides, this method has a rather low isolation efficiency."

The team has developed a filtration device along with a special membrane composition and design and a step-by-step isolation procedure. The solution enables fast and efficient EV isolation while ensuring high purity, which is very important for both diagnostics and EV research. The device is made entirely from Russian components at minimal cost.

Vasiliy Chernyshev adds that "in the EV isolation device that we developed jointly with the Prostagnost company the separation takes place deep in the membrane with a specific pore design. In contrast to conventional filtration, we capture the product inside the filter and recover it with the reverse flow."

"With this new technique, we can effectively isolate EVs of various sizes, exosomes included, from virtually any biological fluid, such as blood, plasma, and urine, and obtain high-purity EVs free from extracellular particles or molecules. But most importantly, all we need for the task is an ordinary lab centrifuge and specific membranes and test tubes that are accessible for any Russian clinical lab."

Sergey Leonov, Head of the MIPT Laboratory for the Development of Innovative Drugs and Agricultural Biotechnology, comments that "our team has put a lot of effort in describing and proving the purity of the exosomes—membrane vesicles sized 40 to 100 nm. This is highly important for both diagnostics and proteomics."

"There is a great need for such simple, fast and effective methods for scientific and medical EV research. We have proposed a locally developed unique technology that can evolve into a useful routine for conventional oncological practices. This research is a perfect example of MIPT's inter-institutional, industrial and international collaborations that help successfully deal with import substitution tasks and market innovative Russian solutions that largely outperform their international analogs."

By

T.Parasuram(22761A0457)

Cybertruck Finally Gets Full Self-Driving (Supervised)

A select number of all-electric Tesla Cybertrucks now have the ability to drive on US highways hands-free, after the automaker pushed an update to vehicles this morning. Tesla AI head Ashok Elluswamy wrote on X that Cybertrucks will be the first Tesla vehicles to receive the "end-to-end on highway" driving feature, which the company says uses a "neural net" to navigate all parts of highway driving.

"Nice work," Tesla CEO (and X owner) Elon Musk responded to his AI chief.

The feature appears to be in "early access," meaning it's available only to some Cybertruck owners who purchased the feature. It's unclear when the automaker will release the feature more widely. Tesla, which

disbanded its public relations team in 2021, did not respond to WIRED's request for comment.

Tesla owners' manuals maintain that the full-self-driving feature, or "FSD (Supervised)," should be used only if drivers are paying attention to the road. The feature reportedly turns off if it detects that drivers are looking elsewhere. Critics have argued that Tesla's marketing incorrectly leads drivers to assume that FSD can truly drive itself and that the automaker hasn't been proactive in preventing driver misuse.

Customers who purchased base model Cybertrucks early, at preorder, paid $7,000 for access to the driving feature, with some waiting almost a year for it to be available on their trucks. Tesla owners can now subscribe to the FSD (Supervised) feature at $99 per month.

One Cybertruck driver reported on X that, based on driving this morning, the feature is "working well."

The feature's introduction is some much-needed good news for the Cybertruck, which has faced a rocky introduction into Tesla's lineup. The vehicle was delayed for years by the Covid-19 pandemic and by engineering issues. (A leaked "alpha" briefing on the vehicle, first reported by WIRED, found that the truck had serious issues with braking, handling, and noise.)

The all-electric truck has also been subject to a handful of safety recalls, including one in which the company had to repair or replace accelerator pedals that had gotten stuck.

As more automakers rush into the electrification race, and Tesla's huge lead in electric cars has been eroded by other manufacturers, Musk and company seem to believe that "self-driving" features enabled by AI will help Tesla regain its edge. "The value of Tesla overwhelmingly is autonomy," Musk told investors this summer.

The US road safety regulator, the National Highway Traffic Safety Administration, has found that Tesla's Autopilot feature, an older and less sophisticated version of FSD, didn't sufficiently prevent drivers from misuse—and was involved in 13 fatal crashes between 2018 and 2023. After a years-long investigation into Autopilot, last year Tesla recalled 2 million vehicles with Autopilot. (The automaker said it did not agree with the government's conclusions.)

Earlier this year, Tesla settled a lawsuit brought by the family of a Northern California man who died while using Autopilot on his Model X.

Tesla also faces a class action lawsuit alleging it misled customers who purchased Teslas after Musk promised the cars had everything they needed to drive autonomously. Eight years later, Tesla has made significant improvements to its driverless features and has plans to make big bucks off the feature—but still hasn't produced self-driving technology.

That could change this month. Musk has promised that Tesla will unveil a self-driving taxi, calling it a Cybercab, at an event in Southern California on October 10.

By

Y.SAI KUMAR (21761A04J2)

REVIEW WRITING ON LATEST HAPPENINGS

NEUROMORPHIC COMPUTING

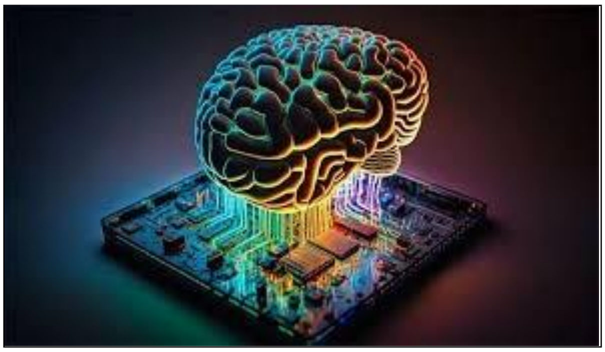
INTRODUCTION:

Neuromorphic computing is a method of computer engineering in which elements of a computer are modeled after systems in the human brain and nervous system. The term refers to the design of both hardware and software computing elements. Neuromorphic computing is sometimes referred to as neuromorphic engineering.

Neuromorphic engineers draw from several disciplines -- including computer science, biology, mathematics, electronic engineering and physics -- to create bio-inspired computer systems and hardware. Of the brain's biological structures, neuromorphic architectures are most often modelled after neurons and synapses. This is because neuroscientists consider neurons the fundamental units of the brain.

Neurons use chemical and electronic impulses to send information between different regions of the brain and the rest of the nervous system. Neurons use synapses to connect to one another. Neurons and synapses are far more versatile, adaptable and energy-efficient information processors than traditional computer systems.

Neuromorphic computing is an emerging field of science with no real-world applications yet. Various groups have research underway, including universities; the U.S. military; and technology companies, such as Intel Labs and IBM.



Neuromorphic technology is expected to be used in the following ways:

- Deeplearning applications
- Next-generation semiconductors
- Transistors
- Accelerators and autonomous systems, such as robotics, drones, self-driving cars and artificial

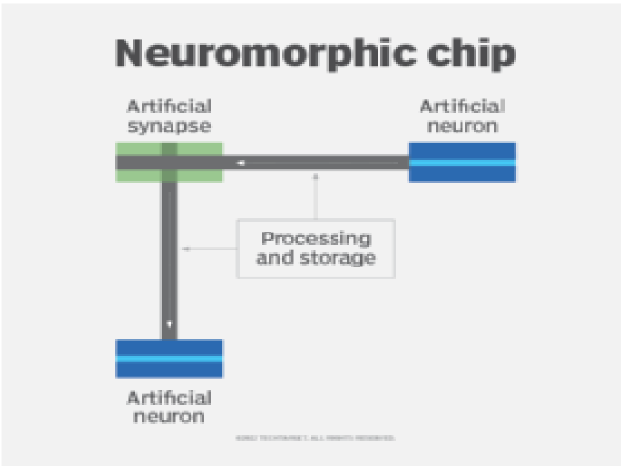
intelligence (AI).

How does neuromorphic computing work?

Neuromorphic computing uses hardware based on the structures, processes and capacities of neurons and synapses in biological brains. The most common form of neuromorphic hardware is the spiking neural network (SNN). In this hardware, nodes -- or spiking neurons -- process and hold data like biological neurons.

Artificial synaptic devices connect spiking neurons. These devices use analog circuitry to transfer electrical signals that mimic brain signals. Instead of encoding data through a binary system like most standard computers, spiking neurons measure and encode the discrete analog signal changes themselves.

The high-performance computing architecture and functionality used in neuromorphic computers is different from the standard computer hardware of most modern computers, which are also known as von Neumann computers.



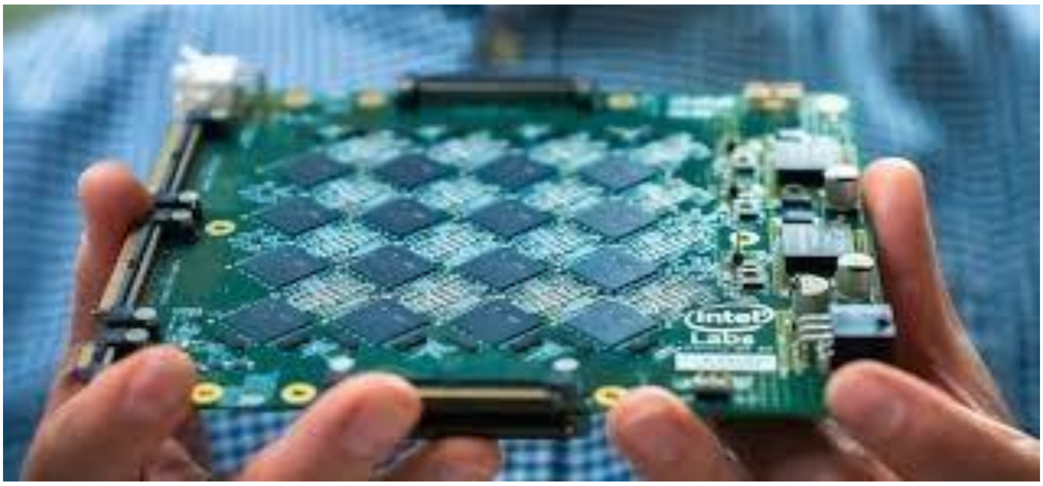
What are the use cases for neuromorphic computing?

Despite challenges, neuromorphic computing is still a highly funded field. Experts predict neuromorphic computers will be used to run AI algorithms at the edge instead of in the cloud because of their smaller size and low power consumption. Much like a human, AI infrastructure running on neuromorphic hardware would be capable of adapting to its environment, remembering what's necessary and accessing external sources, like the cloud, for more information when necessary.

Other potential applications of this technology include the following:

- driverless cars

- drones
- robots
- smart home devices
- natural language, speech and image processing
- data analytics and
- process optimization.



By O.Hema sai sri chandana , 22761A04H5

A Review of the Apple Vision Pro: A Revolutionary Leap Forward

The Apple Vision Pro has been hailed as a groundbreaking device that could redefine how we interact with technology. Here's a detailed review based on early impressions and expert opinions:

Design and Comfort:

- **Sleek and Lightweight:** The headset boasts a sleek, futuristic design that is surprisingly comfortable to wear for extended periods.
- **Adjustable Fit:** The Vision Pro offers a customizable fit to accommodate different head shapes and sizes.

Eye Relief: The device is designed to minimize eye strain, ensuring a comfortable viewing experience

Display and Optics:

- **High-Resolution Displays:** The micro-OLED displays deliver exceptional clarity and detail, providing a truly immersive visual experience.
- **Wide Field of View:** The Vision Pro offers a wide field of view, allowing for a more natural and immersive experience.
- **Optical Clarity:** The optics are designed to minimize distortion and provide a clear and sharp image.

Performance and Features:

- **Powerful Processor:** The Vision Pro is powered by a powerful M2 chip, ensuring smooth performance even for demanding tasks.
- **Spatial Audio:** The headset delivers immersive spatial audio, creating a surround sound experience that enhances the viewing experience.
- **Eye Tracking and Hand Gestures:** Intuitive controls allow you to interact with digital content using your eyes and hands, providing a natural and seamless experience.
- **VisionOS:** The dedicated operating system offers a wide range of features and capabilities, including app support, multitasking, and customization options.

Potential Applications:

- **Entertainment:** Enjoy immersive gaming, movies, and TV shows in a whole new way.
- **Productivity:** Work more efficiently with virtual screens, documents, and collaboration tools.
- **Education:** Learn through interactive and engaging AR/VR experiences.
- **Design and Development:** Create and visualize designs in a 3D space.
- **Healthcare:** Assist in medical procedures, training, and rehabilitation.

The Apple Vision Pro is a remarkable device that has the potential to revolutionize how we interact with technology. Its combination of advanced features, intuitive controls, and immersive experiences make it a compelling option for early adopters. While there are still some areas for improvement, such as battery life and app availability, the Vision Pro is a significant step forward in the world of AR/VR.

By
P.ANUSRI (21761A0438)

LATEST HAPPENINGS

Airtel aims to combat scam calls with the help of AI technology. Here's how the system will operate.

Airtel is implementing advanced artificial intelligence (AI) technology to tackle the rising issue of scam calls, which have become a significant concern for mobile users. This initiative aims to enhance user safety and improve the overall calling experience by identifying and blocking fraudulent calls.

AI-Powered Detection System

The core of Airtel's strategy involves an AI-driven detection system that analyzes calling patterns and behaviors. This system will utilize machine learning algorithms to differentiate between legitimate calls and potential scams. By monitoring a vast amount of data, the AI can identify unusual patterns that typically signify fraudulent activity.

Real-Time Blocking

Once a potential scam call is identified, the system can automatically block the call in real time. This immediate response is crucial in preventing users from engaging with scammers, thus reducing the likelihood of falling victim to fraud.

User Notifications

In addition to blocking scam calls, Airtel plans to inform users about attempted scam calls through notifications. This transparency will help users stay aware of ongoing threats and encourage them to remain vigilant.

Collaboration with Regulatory Bodies

Airtel's efforts are also supported by collaborations with regulatory bodies, which aim to establish guidelines and frameworks for effectively managing and mitigating spam and scam calls. This cooperative approach ensures a comprehensive strategy to enhance consumer protection.

Continuous Improvement

The AI system will continuously learn and adapt to new scam tactics, making it more effective over time. By regularly updating its algorithms, Airtel intends to stay ahead of evolving scam methods and provide robust protection for its users.

Conclusion

Airtel's initiative to use AI in curbing scam calls represents a proactive step toward enhancing customer safety in telecommunications. By leveraging advanced technology to detect and block fraudulent calls, Airtel is taking significant measures to protect its users and foster a more secure communication environment. As the initiative unfolds, its effectiveness in reducing scam call incidents will be closely monitored, potentially setting a standard for the industry.

By

V.GEETHA (22761A0461)

Bengaluru Police plans to use AI to hunt down traffic violators and manage congestion and jams

Bengaluru, one of India's rapidly growing cities, faces significant traffic challenges, including congestion and frequent violations. In a bid to enhance traffic management and improve road safety, the Bengaluru police are integrating artificial intelligence (AI) technologies into their operations. This initiative is aimed at streamlining traffic flow, identifying traffic violators, and ultimately ensuring a safer environment for commuters.

AI-Driven Traffic Monitoring

The Bengaluru police plan to deploy AI systems that analyze real-time traffic data collected from various sources, including CCTV cameras and traffic signals. These systems will utilize advanced algorithms to monitor vehicle movement and identify congestion points. By analyzing patterns in traffic flow, AI can help predict congestion before it escalates, allowing authorities to take preemptive measures to manage the flow of vehicles effectively.

Identification of Traffic Violations

One of the most significant aspects of this initiative is the AI's ability to detect traffic violations. The system will be capable of recognizing various infractions such as signal jumping, overspeeding, and illegal parking. By automating the detection process, the police can issue fines more efficiently, reducing the burden on traffic officers and enhancing compliance among drivers.

Data-Driven Decision Making

The implementation of AI also facilitates data-driven decision-making. By gathering and analyzing traffic data over time, the Bengaluru police can identify trends and patterns, enabling them to make informed decisions about infrastructure improvements and policy changes. This data-centric approach is expected to lead to more effective traffic management strategies that adapt to the city's evolving needs.

Public Awareness and Engagement

To complement these technological advancements, the Bengaluru police are also focusing on public awareness campaigns to educate citizens about traffic rules and the consequences of violations. By fostering a culture of compliance and responsibility among drivers, the initiative aims to enhance road safety and reduce accidents.

Challenges and Considerations

Despite the potential benefits, the use of AI in traffic management comes with challenges. Concerns about privacy and data security must be addressed to ensure public trust. Moreover, the successful implementation of these technologies will require significant investment in infrastructure and training for personnel.

Conclusion

The Bengaluru police's initiative to integrate AI into traffic management represents a proactive approach to addressing the city's pressing traffic issues. By leveraging technology for real-time monitoring and enforcement, the police aim to create a safer, more efficient transportation environment. As the project progresses, its impact on reducing traffic violations and improving congestion will be closely observed, paving the way for smarter urban traffic solutions in the future.

By

N.THEJASRI (21761A0436)

DRAWINGS

THE RELIABILITY OF LIFE

BY
Y.HARSHITHA(21761A04J3)

THE MICKEY MOUSE

BY

A.DURGA MAHESWARI(21761A04D2)

LIBERATING THE STEREOTYPES OF BLACK

BY

A.KAMAL PHANEENDRA(20761A0468)

ADORN YOUR HOBBY WITH DANCE

BY

B.SNIGDHA(20761A04D2)

POETRY

Hating what the mirror shows

Mirror, Mirror, on the wall,
Why aren't I thin, pretty, or tall?
Why don't you show the perfect me?
The one that everyone pretends to be.
Mirror, Mirror, standing there,
Why can't you just stop and stare?
Why do you point out all my flaws?
Making me feel the lowest of lows
Every time I hear you speak.
Slowly inside it's killing me.
Why do we have these arrogant mirrors
That only believe in the public figures?
The models we see on TV,
Oh please, dear God, make that me.
Mirror, Mirror, can't you see
What you show is killing me?
Every day and every night there's no escape.
A mirror in sight

By

T.Parasuram(22761A0457)

Ms. Violin

My violin is beautiful
but sometimes when you play her
she sounds like she cries happy or sad tears
I don't know
it depends how I play her
when I touch my violin
it's soft and at the same time
sometimes feels hard
just like some of my friendships
I have to be strong yet so slow
and fast at the same time
my dream is to be with my violin
and hear the melodies of my dreams and desires
both singing a lovely duet

By

T. Lakshmi sravani

22761A04C0

Then and Now

And now, it is burning red
Tired after a long day's work
Yearning to crash in bed
Casting mysterious shadows on the sandy beach,
And kissing the waves good night
But
Then
Mere hours ago
It was sprinkling its sunshine
Dancing with the waves,
Gazing through the clouds
And bringing life to all things that live
Commencing the transient journey in the sky
When the sun came out, then life began . . .

By

A. Jaswanth

21761A0466

Why be Shy

Shyness is like a stray dog

Scared, lost, and shy

They always hide inside a fog

The darkness makes them sigh

When someone gets near

They run away

They have so much fear

For them, it's a gloomy day

Wherever they walk

The colors die

They pick up fog

It makes them cry

They want to speak

But they choose not to

Do they even have teeth?

They always wonder what to do

I'll admit, sometimes I'm shy

But, that's normal

Sometimes, you need to fight

Be bright, like coral

By

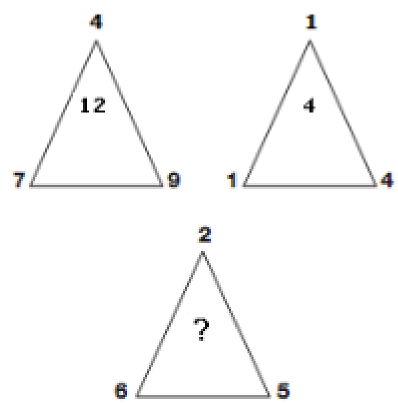
N. Thejasri

21761A0436

PUZZLES

PUZZLE-1

Which number replaces the question mark?



By

R.Niranjan

21761A0444

PUZZLE-2

If a giraffe has two eyes, a monkey has two eyes, and an elephant has two eyes, how many eyes do we have?

A) 7

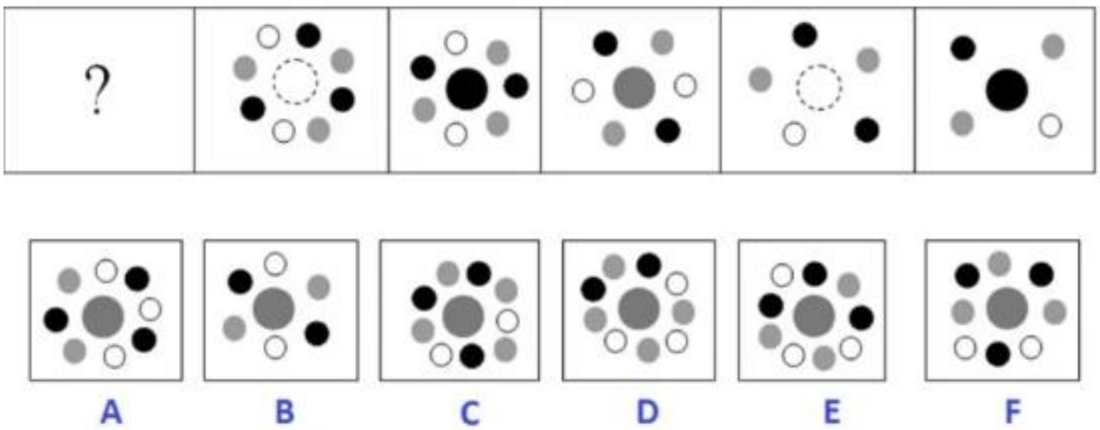
B) 3

C) 4

D) 2

By Y.Ramalakshmi(22761A04D2)

PUZZLE-3



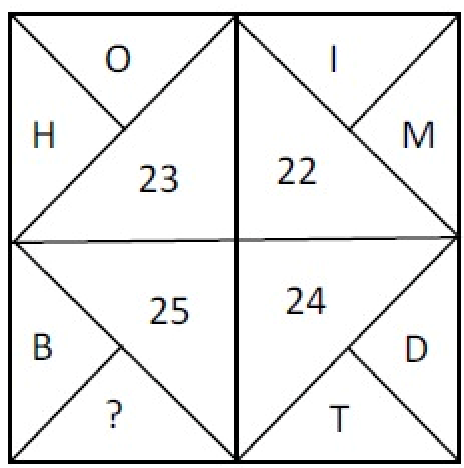
Which is the next logical image in the sequence?

A, B, C, D, E, F

By Y. Harshitha

21761A04J3

PUZZLE-4



By

P. Akhila, 21761A04H3

STORIES

Wealth - Success and Love

A woman came out of her house and saw 3 old men with long white beards sitting in her front yard. She did not recognize them. She said "I don't think I know you, but you must behungry. Please come in and have something to eat."

"Is your husband at home?", they asked. "No," she replied. "He's out.""Then we cannot come in," they replied.

In the evening when her husband came home, she told him what had happened.

"Go tell them I am home and invite them in!"
The woman went out and invited the men in.

"We do not go into a House together," they replied. "Why is that?" she asked.

One of the old men explained: "His name is Wealth," he said pointing to one of his friends, and said pointing to another one, "He is Success, and I am Love." Then he added, "Now goin and discuss with your husband which one of us you want in your home."

The woman went in and told her husband what was said. Her husband was overjoyed. "How nice!," he said. "Since that is the case, let us invite Wealth. Let him come and fill our home with wealth!"

His wife disagreed. "My dear, why don't we invite Success?"

Their daughter-in-law was listening from the other corner of the house. She jumped in with her own suggestion: "Would it not be better to invite Love? Our home will then be filled with love!"

"Let us heed our daughter-in-law's advice," said the husband to his wife."Go out and invite Love to be our guest."

The woman went out and asked the 3 old men, "Which one of you is Love? Please come in and be our guest."

Love got up and started walking toward the house. The other 2 also got up and followed him.

Surprised, the lady asked Wealth and Success: "I only invited Love, Why are you coming in?"

The old men replied together: "If you had invited Wealth or Success, the other two of us would've stayed out, but since you invited Love, wherever he goes, we go with him. Wherever there is Love, there is also Wealth and Success!"

By

Y.Hasmitha(21761A04J1)

The Clever Boy

z

The judge asked, “Dear boy, if you had not seen the donkey, how could you describe it?” The boy answered, “I saw the tracks of a donkey
and the right and left tracks were different from this. I understood that the donkey that passed there was limping. And the grass on the right side of the road was eaten but the grass on the left was not. From that I understood that his left eye was blind. There were wheat seeds scattered on the ground and I understood that he must have been carrying a load of wheat. The judge understood the boy’s cleverness and told the man to forgive the boy.

Lesson: This story teaches us that we should not be quick to judge the people

The Fox Who Got Caught In The Tree Trunk

Once upon a time, there was a hungry fox that was looking for something to ear. He was very hungry. No matter how hard he tried, the fox could not find food. Finally he went to the edge of the forest and searched there for food. Suddenly he caught sight of a big tree with a hole in it.

Inside the hole was a package. The hungry fox immediately thought that there might be food in it, and he became very happy. He jumped into the hole and when he opened the package, he saw there was a lot of food, bread, meat and fruit in it!

An old woodcutter had placed the food in the tree trunk while he cut down trees in the forest. He was going to eat it for his lunch.

The fox happily began to eat. After the fox had finished eating, he felt thirsty and decided to leave the trunk and drink some water from a nearby spring. However, no matter how hard he tried, he could not get out of the hole. Do you know why? Yes, the fox had eaten so much food that he became too big to fit through the hole.

The fox was very sad and upset. He told himself, “I wish that I had thought a little before jumping into the hole.”

Lesson: It's important to think before taking actions.

By

Y.Rama Lakshmi

22761A04D2

E-Resources

FOLDOC- Free Online Dictionary of Computing

FOLDOC is a computing dictionary. It includes definitions of acronyms, jargon, programming languages, tools, architecture, operating systems, networking, theory, standards, mathematics, telecoms, electronics, institutions and companies, projects, history, in fact any of the vocabulary you might expect to find in a computer dictionary.

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20761A0468

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20761A0408

SK. TAUFEEQ AHMAD
20761A0412

B. DEVI SRI PRIYA
21761A0472

N. THEJASRI
21761A0436

Y. RAMA LAKSHMI
22761A04D2

DRAFTING COMMITTEE

B. RADHIKA
20761A0406

A. RAHAMTUNNISA
20761A0401

Y. HARSHITHA
21761A04J3

P. AKHILA
21761A04H3

T. PARASURAM
22761A0457

SCREENING COMMITTEE