

# TOGGLE

WEEKEND LIVING IN THE DIGITAL AGE

A publication of *The Daily Star*

## HOW TO TRAIN YOUR AI



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ILLUSTRATION: SHAMS RASHID TONMOY

### শেখের জন্য সাফর

ওয়ালটন ফ্রিজে

# ৭৫%

ওয়ালটন ফ্রিজের Artificial Intelligence ভিত্তিক 3D Matrix Speed Optimization ইনভার্টার প্রযুক্তি কলম্বাসের গতি নিয়ন্ত্রণের মাধ্যমে অধিক বিদ্যুৎ সাফর নিশ্চিত করে।

## WALTON

Smart Fridge



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## Samsung Galaxy A04 released in Bangladesh

Samsung has recently released the new Galaxy A04 smartphone in Bangladesh. It comes with a 6.4-inch display with HD+ Infinity-V resolution, a 50 MP AF true dual camera, a 5 MP selfie unit and a 2 MP depth sensor. It also has 32 GB storage, with expandable SD storage of up to 1TB, and 3 GB RAM expandable up to 7GB with RAM+.

The smartphone also features an octa-core processor, One UI Core 4.1 and Android 12 OS, with sensors for accelerometer, light and proximity. It has a 5,000 mAh battery with 15 W adaptive fast charging.

Samsung Galaxy A04 will be available in three colours: copper, green and black. It is currently priced at Tk. 12,999/-.



The new iteration in BMW's luxury segment, the BMW X7 xDrive40i, is now officially available in Bangladesh. According to a press release, the BMW X7 comes with significant design changes - a front end and the latest generation of operating system with iDrive control, including a curved display. The redesigned front end features signature BMW design elements such as twin headlamps and a kidney grille.

The new X7 also comes with additional driver assistance and the latest 48V mild hybrid technology.

The six-cylinder in-line engine makes its debut in the new BMW X7, and it improves performance by enhancing the car's combustion process, gas exchange, valve control and ignition system. This new-generation 48-volt mild hybrid technology in its most recent version consists of a crankshaft-mounted starter generator integrated into the transmission and contributes to an additional 9 KW for 12 HP of output and 200 NM of torque.

The price of the BMW X7 starts from Tk. 3 crore 30 lakh in Bangladesh.

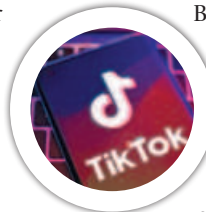
## TikTok removes 6 million videos from Bangladesh

The popular micro-video sharing platform TikTok has removed almost 6 million videos from Bangladeshi users from July to September 2022, as per TikTok's latest Community Guidelines Enforcement Report.

The latest report, which covers statistics regarding July, August and September (Q3 2022) of the previous year, states that a total of 5,960,758 videos were removed from Bangladeshi users. This makes Bangladesh rank 5th in the world in

TikTok content removal - behind the US, Pakistan, Indonesia and Brazil.

In the previous quarter of 2022, Bangladesh also ranked 5th overall in TikTok content removal - with 4,974,838 videos removed from April to June this year. In Q3 2022, Bangladesh had a proactive removal rate of 99.5% in TikTok. 98% of videos were removed before 24 hours of uploading, and 97.4% of videos were removed before any views.



## Uber completed 150 million km in trips in 2022 in Bangladesh

Uber recently released its annual analysis, which highlights the completion of 150 million kilometres in trips during 2022 in the country. The annual report emphasises Uber's support for communities in using the Uber app to safeguard each trip, helping law enforcement agencies improve overall road safety, and empowering driver-partners to earn on the platform.

According to the report, users of Dhaka were the busiest with most late-night trips (10 pm to 6 am) and most office-hour trips (07 am to 11 am, and 4 pm to 8 pm) taken through Uber. The most popular day of the week in 2022 for booking trips was Friday, the report highlighted.

Moreover, Uber trained driver partners



In partnership with Bangladesh Police, to raise awareness about traffic rules and regulations. The first round of training was conducted by two officials from the Bangladesh police and a representative from Uber, where drivers were educated about road safety, traffic rules and regulations, trip cancellations, offline trips, and cash cherry-picking.

## EDITOR'S NOTE

### New year, new tech

2022 was the emergence of a plethora of brand-new technology: from virtual reality to AI-based art generators. ChatGPT, the language model AI, made waves last year as a unique chatbot that redefined what we think of artificial intelligence. As the new year arrives with promises of more new tech, let's take a look at what ChatGPT is, and how you can use it - in 2023's first Cover Story from us.

As for other pages, we discuss how you can take care of your car during winter in Shift, talk about business competition strategies in Next Step and provide you with a list of gadgets to pack when travelling during the holidays in Bytes.

With that, welcome to 2023. Happy new year everyone.

Shams Rashid Tonmoy  
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## Walton becomes the first local brand to join CES

The Bangladeshi electronics manufacturer Walton Hi-Tech Industries PLC is participating in next year's CES 2023. This makes them the first Bangladeshi brand in history to take part in this renowned global event.

CES is one of the most influential tech events in the world. It features tech and electronics companies from all over the world, allowing developers and innovators to introduce ground-breaking technology in consumer

hardware and content. Owned and hosted by the Consumer Technology Association (CTA), the event is also a meeting hub for international businesses in consumer electronics and tech products.

If you are a Bangladeshi living in Las Vegas (or in the USA) who can make it to the event, you can visit Walton's booth (no. 17928) from Jan 5- Jan 8, 2023, at the Las Vegas Convention Center.

# How to excel in business competitions

AHMAD TOUSIF JAMI

Business case competitions are a great way to elevate business skills and knowledge in a real-world setting. While they can be challenging, they are also a fantastic opportunity to learn and grow your career in the world of business. However, getting into a business competition and finding success in it can be a daunting task if you're just starting out. Here are some key things to keep in mind if you have the drive to excel in business competitions.

## Do not be afraid of losing

Fear of losing keeps many from taking part in the first place or continuing it later. But losing can be a great way to learn and improve in these competitions. "The first competition that I ended up taking part in was at the latter part of my freshman year at university because I was afraid," shares Ramim Ahmed, a past champion of a prestigious global business competition. To make the most of the experiences, teams can seek feedback from judges and discuss the challenges they faced and ways of improving on them. "My biggest learnings came from the ones where I didn't win," added Ramim. Learning from your setbacks is a great way of self-improving as well.

## Meet with real buyers and sellers

To properly understand the business problem you're trying to solve, it's essential to speak with real buyers and sellers. This will give you valuable insights and help you understand the core issue or problem statement. "Do ground-level research if it is a local case. Talk to customers and retail outlets. Have a conversation with territory officers if that is relevant," shares Sourodip Paul, a past champion of a prestigious global business competition.

According to Ishtiaque Shahriar, Head of Assets of a leading local MFS, "As a business competition judge, I look for whether the research took place with the accurate target group." Meeting with real buyers and sellers helps ensure judges are provided with updated information on the relevant target group. It also keeps you in the loop about possible market changes, including understanding the current demands of local customers.

## Translate academic lessons to real-life

University students are exposed to many academic materials which help build a strong foundation of the theoretical aspects of the business. But they sometimes translate differently to the real world. According to Ramim, business competitions can play a massive role in helping to bridge this gap, as it puts the participants in the shoes of decision-makers which helps to develop their strategic thinking ability. It allows participants to try out different solutions and get feedback from experts that gives meaning to their academic learning. As such, focusing on core academic lessons is a great way to build a strong foundation for your business skills.

## Always prepare multiple justifications

Business competitions require analytical

rigour, especially so with regard to the efficacy and feasibility of a solution. Regardless of whether the solution type is conventional, it is essential that an active effort is given to justify it from various angles and stakeholders. Sourodip suggests that competitors should be as analytical as possible and give multiple justifications for any proposed decision. He further suggests not to go ahead only on gut feelings but to improvise them with logical analysis. Furthermore, being prepared with multiple justifications also help you land a positive impression on your peers and judges - as well as preparing you for the unpredictability of the real business world.

## Make your presentation compelling

In almost all stages, a presentation is necessitated in business competitions. Judges get to know about the suggested product or solution through these presentations, so they must be made in a way that makes the judges take note to give you brownie points. There are many ways a presentation can be made interesting.

For instance, catchy facts could make the judge care more about the problem your proposed product aims to solve. According to Sourodip, judges are used to routine corporate presentations, so it is beneficial to do something that catches their attention. He further shares that some great ways to make a presentation interesting include but are not limited to adding an anecdote, including verbal illustrations, or telling a story. As long as you focus on delivering your points in a compelling fashion, you are more likely to succeed.

## Ace different aspects of the competition

There are different types of business competitions and various effective strategies for each type. But a few aspects of these competitions need to be done very well across all types. Ramim recommends competitors use various tools such as SWOT or PESTEL in their presentations. He also suggests that teams should sync the role of individuals within the team in different aspects to prepare effectively in answering Q&A sessions.

Ishtiaque further shares that he looks at how the Return on Investment (ROI) is calculated. To truly excel in business competitions, ROI must demonstrate the financial feasibility of your solution and make it more appealing to judges. It is also a key factor to keep in mind when tackling real-life business problems.



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# Tips to take care of your car in winter

Winter can be a tough time for your car, as the cold temperatures and harsh weather conditions can take a toll on its performance and longevity. However, with a little bit of maintenance and

care, you can help your car weather the winter season in good health. Here are some tips for maintaining your car in winter:

**Check your battery**  
Cold temperatures can drain your battery faster, so it's important to make sure it's in good condition before the winter season hits. Get it tested and consider replacing it if it's more than three years old or if it's showing signs of wear and tear.

**Check your fluids**  
Make sure you have enough antifreeze, oil, and windshield washer fluid to get you through the winter. These fluids help keep your car running smoothly and help prevent damage caused by freezing temperatures.

**Inspect your tires**  
Make sure your tires are properly inflated and have enough tread depth to handle slippery road conditions. Consider getting winter tires or using tire chains if you live in an area with heavy snowfall.

**Clean your car regularly**  
Snow, ice, and salt can all cause damage to your car's exterior and undercarriage. Regularly washing and waxing your car can help protect it from these elements and keep it looking its best.

**Keep an emergency kit in your car**  
In case you get stranded in the cold, it's a good idea to have a few essentials on hand, such as a blanket, flashlight, warm clothing, and a first aid kit.

**Stay on top of regular maintenance**  
Don't let the winter season be an excuse to skip out on regular maintenance tasks, such as oil changes and tune-ups. These tasks are essential for keeping your car running smoothly and can help prevent more serious problems down the road.

By following these tips, you can help your car stay in good shape throughout the winter season and avoid costly repairs down the road. A little bit of effort can go a long way in keeping your car running smoothly and safely all winter long.



# ChatGPT: Everything you need to know about the new AI Chatbot

MORIUM KULSUM

Artificial intelligence (AI) products have been dominating the headlines for the last several months. The recent hype surrounding AI arts has shown us a glimpse into the potential of AI in disrupting the creative industry. More recently, the launch of ChatGPT has taken the internet by storm and has decidedly marked a turning point for generative AI. If you have been behind the curve on this one, fear not, we are here to catch you up to speed! In this article, we have rounded up all the nitty-gritty details that you need to know about the viral sensation called ChatGPT.

## What is ChatGPT?

ChatGPT is a chatbot in essence - but no ordinary chatbot whatsoever. The first thought that comes to your mind when you think of chatbots is perhaps a rudimentary tool that is only capable of answering frequently asked questions on corporate help desk pages. But ChatGPT is here to permanently change your perception of chatbots.

ChatGPT is a large language model that can automatically process and generate responses in a human-like manner. The chatbot lets you type open-ended questions about any topic, to which it gives answers that feel conversational rather than hand-coded. ChatGPT is powered by GPT-3.5, a language-generation software that has been designed to carry back-and-forth conversations with human users. It was trained on enormous volumes of data scraped off the web, then fine-tuned with human assistance to deliver more interactive and useful dialogue.

ChatGPT was developed by San Francisco-based OpenAI, a research company led by Sam Altman and backed by tech investors like Microsoft, Tesla Inc. CEO Elon Musk, and LinkedIn co-founder Reid Hoffman, among others. The company is a power player in the AI applications industry that is known for its breakthrough AI art generator DALL-E.

ChatGPT was released in late November and within only five days of its release, it reached one million users. To

website and click on the 'Try ChatGPT' option. As soon as you sign up with your email address and phone number, the chat page gets loaded. The page is fairly easy to navigate with an area where your results will show up and a text box where you can type your inquiries. There is a 'Regenerate response' button that you may click if you are not satisfied with the response you have received or if you want to opt for a different answer.

## What can you do with this chatbot?

Since its launch, social media feeds have been flooded with users displaying ChatGPT's seemingly infinite uses, from generating poems for dating app matches to cheating on university assignments by generating essays. Here are some easy ways you can take advantage of this intelligent tool without breaching any ethical code.

First and foremost, you can prompt ChatGPT to explain complex concepts for you. For example, you may write: "Explain metaphysical philosophy." After you get an answer, for better understanding, you may write: "Explain it for a 10-year-old student" and voila, the chat has broken down the concept into layman's terms.

You can also use it to dash off and fine-tune your resumes and cover letters in just a few seconds. While you can crib from a lot of example copies on the internet, ChatGPT can help create a personalised copy and add a professional polish to your resume or cover letter.

You may utilise the chatbot to generate

codes from scratch or finding a few bugs in your code. However, you still have to double-check to make sure the output is not buggy or insecure.

You can use the chatbot to make summaries of long-form content to get a quick overview of a topic. You can paste the text into ChatGPT and ask it "Shorten this text to three paragraphs while retaining the important details".

ChatGPT can come in handy if you are preparing for an interview. You can prompt the chatbot to generate some generate hypothetical scenarios in a job interview, possible questions that may be asked, convincing replies to those questions, and so on.

Last but not least, you may prompt the chatbot to get a custom list of movies, books, or songs based on your preferences. For this, simply use, "Give me movie recommendations based on the fact that I loved 'Witness for the Prosecution'".

When deploying the chatbot, however, keep in mind that it knows about information only through 2021, cannot browse the web live, and is prone to inaccuracies. So, it would be wise to not use the tool for anything crucial at its current stage. Also, make sure to verify the information it provides before using it.

## Is it a good alternative to search engines?

While search engines respond to queries with links to relevant websites, ChatGPT presents information in a structured form without any link or citation, thus eliminating countless hours of research. However, since ChatGPT was built fundamentally as a large language model and not a traditional search engine, it does not have access to the same breadth and depth of information as other search engines.

In short, whether or not ChatGPT is a good alternative to search engines hinges on the specific needs and preferences of the users. It may be a useful option for those who value a more interactive and conversational search experience. But it may not provide satisfactory results for certain types of searches where you expect an array of options instead of a single simple answer to your question.

## What does the future hold?

ChatGPT is still a work in progress and requires much more improvements in many areas. Though we cannot tell what the future versions may look like, it is clear that this is a peek into the future of infinite possibilities that AI products hold. Reams of reports show that ChatGPT is just the first of many similar chatbots that will be used extensively in our day-to-day life in the not-so-distant future.

Now that we are witnessing a meteoric rise of AI products, it is a good time to pause and assess: How can we use these intelligent tools safely and ethically? How can we prepare ourselves for the inevitable technological unemployment? How can we use these tools to help us think fast rather than rob us of the capability to think in the first place? Right now, we do not have clear answers to these questions. But these questions will be raised, again and again, as newer AI products keep making waves in the tech industry.



put this number into perspective, Netflix took 41 months, Facebook 10 months and Instagram 2.5 months to achieve this milestone. As the excitement about this chatbot is rising, so is the agitation regarding its future. While some observers are predicting that it will sound the death knell for human-generated writing, others are trumpeting it as an actual disruptive technology.

## How can you use it?

If you want to try your hands at using this tool, the good news is, ChatGPT is free (for now at least). Just go to the ChatGPT

the first draft of a business proposal, email, or press release that you have to write in a little time. For example, you can ask ChatGPT: "Write me a press release for a consulting firm called X that has acquired company Y to bolster market leadership in cybersecurity." We would not recommend using the response as is, rather, you can use it as a baseline for your final draft.

You can prompt the chatbot tool to write and debug programming codes. It will save you the time and energy wasted on the tedious task of writing lengthy



# Travelling in the holidays? Make sure you pack these 10 gadgets

As technology continues to advance, there is now a plethora of gadgets available to make travel easier and more enjoyable. From portable chargers to noise-cancelling headphones, here are some of the top gadgets to have while travelling.

## Smart luggage

If you're tired of lugging around a heavy suitcase or worrying about lost luggage, consider investing in smart luggage. These luggage options come equipped with features such as a built-in scale, GPS tracking, and USB charging ports. Some even have a built-in power bank to keep your devices charged on the go.

## Portable charger

One of the worst things that can happen while travelling is running out of battery on your phone or other electronic devices. That's why a portable charger is a must-have gadget. Look for one with a high capacity, so you can charge your devices multiple times before needing to recharge the charger itself.

## Noise-cancelling headphones

Whether you're trying to sleep on a long flight or just want some peace and quiet while exploring a new city, noise-cancelling headphones can be a lifesaver. These headphones use advanced technology to block out external noise, allowing you to focus on your music, podcasts, or just your own thoughts.

## Water purification bottle

If you're travelling to a destination with questionable water quality, a water

purification bottle can be a game-changer. These bottles are equipped with a filter or UV light technology that can eliminate bacteria, viruses, and other contaminants from your drinking water.

## Universal travel adapter

If you're travelling to a destination with a different type of electrical outlet, a universal travel adapter is a must. These adapters allow you to use your electronic devices in any country, saving you the hassle of trying to find the right plug.

## Bluetooth tracker

It's easy to misplace small items while travelling, but a Bluetooth tracker can help you keep track of your belongings. These devices, such as Tile or Chipolo, can be attached to your keys, luggage, or even your phone, and use Bluetooth technology to help you locate them if they get lost.

## Travel-sized toiletry bag

Packing all your toiletries can be a hassle, especially if you're trying to fit everything in a carry-on. A travel-sized toiletry bag can help you keep your products organized and easy to access. Look for a bag with multiple compartments and a leak-proof design

to keep your liquids secure.

## Power bank for laptops

If you're travelling for work or just need to stay connected, a power bank for your laptop can be a lifesaver. These devices allow you to keep your laptop charged even if you don't have access to an outlet, so you can work or stay connected on the go.

## E-reader

If you love to read but don't have space in your luggage for physical books, an e-reader is a great gadget to have while travelling. These devices allow you to store hundreds of books in a single device, and many models come with a built-in light, so you can read in any lighting condition.

## Translation device

If you're travelling to a destination where you don't speak the language, a translation device can be a lifesaver. These devices, such as the Google Pixel Buds, use advanced technology to translate spoken language in real time, allowing you to communicate with locals and navigate unfamiliar areas with ease.

These gadgets can make your travels more convenient, enjoyable, and stress-free. From smart luggage to translation devices, there are plenty of options available to suit your specific needs and preferences. So before you hit the road, make sure you pack these.



# From VR to AI, here are all the latest technologies used in Avatar 2

Avatar: The Way of Water, the highly anticipated sequel to James Cameron's 2009 blockbuster Avatar, has recently hit theatres and has been met with widespread acclaim. The film, set in the distant future on the planet Pandora, features cutting-edge technology that helps bring the fantastical world to life. Here is a rundown of some of the latest technologies used in the production of Avatar: The Way of Water.

## Performance capture

Performance capture, also known as motion capture or mo-cap, is a technique used to capture an actor's performance and translate it into a digital format. In Avatar: The Way of Water, performance capture was used to bring the film's characters, both human and alien, to life. Actors wore special suits equipped with sensors that recorded their movements, which were then translated into computer-generated characters on screen. Performance capture allowed the filmmakers to create highly realistic and

expressive characters and allowed the actors to fully immerse themselves in their roles.

## Virtual reality

Virtual reality (VR) technology was used extensively during the production of Avatar: The Way of Water to help the filmmakers visualize and design the film's complex environments and characters. VR headsets allowed the filmmakers to walk around Pandora and interact with the virtual world in real-time, giving them a sense of scale and immersion that traditional pre-visualization techniques could not provide. VR was also used to help the actors get a feel for their characters and the world they were inhabiting, allowing them to better connect with their roles and the story.

## 3D printing

3D printing technology was used to create some of the intricate props and costumes seen in Avatar: The Way

of Water. 3D printing allowed the filmmakers to quickly and accurately create complex shapes and designs that would have been difficult or impossible to create using traditional manufacturing techniques. This technology also allowed for greater flexibility and customization, as the filmmakers could make changes and adjustments to the designs on the fly.

## Augmented reality

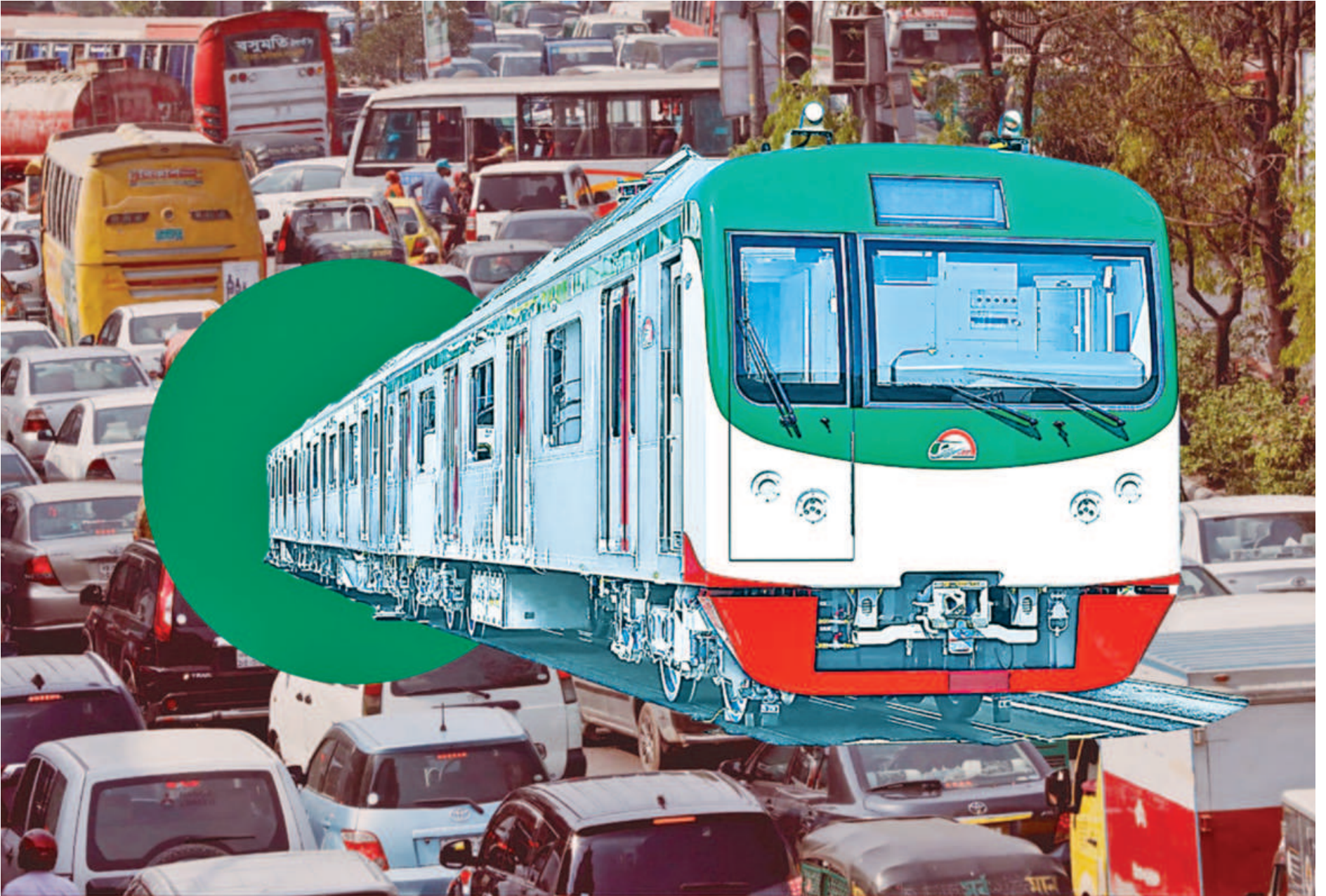
Augmented reality (AR) was used to enhance the film's special effects and bring Pandora to life on screen. AR technology allows digital elements to be superimposed over the real world, creating a sense of immersion and interactivity. In Avatar: The Way of Water, AR was used to create the film's complex and realistic alien creatures, as well as to add special effects and layers of detail to the film's environments.

## Artificial intelligence

Artificial intelligence (AI) was used in

various aspects of the production of Avatar: The Way of Water, including in the creation of the film's special effects and in the development of the film's complex characters and storylines. AI algorithms were used to analyze the film's script and suggest changes and improvements, as well as to generate ideas for new scenes and plot twists. AI was also used to analyze the performances of the actors and make adjustments to the computer-generated characters to better match the actors' expressions and movements.

Overall, Avatar: The Way of Water is a testament to the power of technology in the film industry. From performance capture and VR to 3D printing and AI, the latest technologies were used to bring the film's complex and immersive world to life. It's clear that technology will continue to play a major role in the future of film, and Avatar: The Way of Water is a glimpse into what the future of movie-making may hold.



# CAN THE MRT BE A GAME-CHANGER FOR DHAKA?

The Dhaka Metro Rail will also be more environmentally friendly than other modes of transport. The trains will run on electricity, meaning they will emit no greenhouse gases or other harmful pollutants. This will help to improve air quality in the city and contribute to the overall sustainability of the transport system.

Dhaka, the capital city of Bangladesh, has long been known for its chaotic and congested streets, making it one of the most challenging cities in the world to navigate. The city's public transport system has struggled to keep up with the growing population, leading to a lack of efficient and reliable options for commuters. However, all of this is set to shift, for better or for worse, with the introduction of the Dhaka Metro Rail, a revolutionary new system that is poised to transform the way people travel in the city. But can the project achieve what it aims? Let us look at where things stand.

One of the main benefits of the Dhaka Metro Rail is its sheer speed and efficiency. The trains will be able to reach speeds of up to 100 km/h, making them significantly faster than traditional buses and rickshaws. This will allow commuters to get to their destinations much faster, reducing travel times and making it a more appealing option for those who are short on time.

In addition to speed, the Dhaka

Metro Rail will also offer a much more comfortable and convenient experience for commuters. The trains will be air-conditioned, providing a welcome respite from the sweltering heat and humidity that can be a feature of life in Dhaka. They will also be equipped with modern amenities such as Wi-Fi, making it easier for people to stay connected while on the move.

Another major advantage of the Dhaka Metro Rail is its capacity. The trains will be able to ferry up to 60,000 passengers per hour, significantly more than traditional modes of transport. This will help to reduce the number of vehicles on the roads, leading to fewer traffic jams and more efficient use of space.

The Dhaka Metro Rail will also be more environmentally friendly than other modes of transport. The trains will run on electricity, meaning they will emit no greenhouse gases or other harmful pollutants. This will help to improve air quality in the city and contribute to the

overall sustainability of the transport system.

However, there is always concern about the lack of infrastructure in Dhaka to support the metro rail. The city of Dhaka is already heavily congested, and there are concerns that the metro rail lines could lead to further disruption and congestion as many of the key stations are not properly planned, as experts have pointed out over the years. Only time will tell if these concerns hold or not.

Nonetheless, the Dhaka Metro Rail is set to change the city's public transport system for good. It will provide a fast, comfortable, and convenient option for commuters, helping to alleviate some of the challenges faced by those who rely on public transport to get around. But concerns also loom large over efficiency. However, with the potential to improve travel times, reduce traffic congestion, and benefit the environment, the Dhaka Metro Rail is sure to be a welcome addition to the city of never-ending traffic.