

Why Mobile Users Aren't Willing to Pay PTA Taxes?

**Internet Shutdowns in
Pakistan: It's Impact on
Society, Economy, and
Freedom**

WN CONFERENCE

The game industry dealmaking event

Limassol, Cyprus

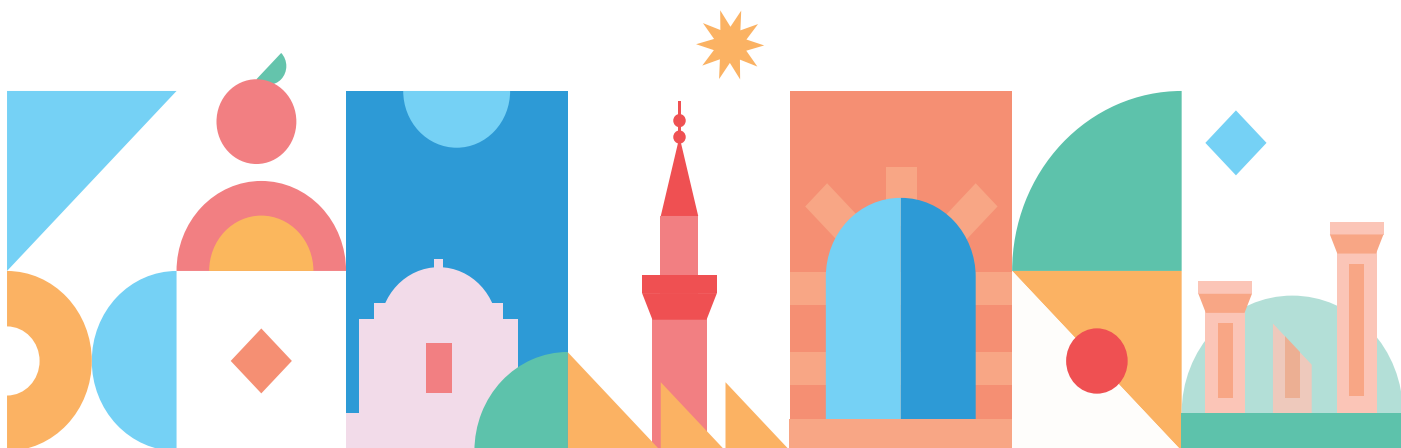
September 12-13, 2023

ON-SITE

ONLINE

- 500+ game industry decision-makers
- Efficient networking
- Lectures and industry insights
- Engaging expo zone
- Online meeting system
- WN Party

Use **phoneworld** code
for a **5% discount**
on a conference website



M360
GSMA

APAC
7 - 8 SEPTEMBER 2023

Leading a Digital-First Future

www.mobile360series.com/asia-pacific/

SEOUL

Westin Josun,
Seoul

TABLE OF CONTENT

Internet Shutdowns in Pakistan: It's Impact on Society, Economy, and Freedom	06
Infographic	12
Why Mobile Users Aren't Willing to Pay PTA Taxes?	14
How Ai Can Improve Service Delivery in Pakistan's Healthcare Sector	16
Desi Startup	22
Tech Personality	23
Navigating Pakistan's Economic Turmoil for the Tech Industry	26
Tech Twist	29
Exploring the Potential of 5G Insights from Experts at vivo's 5G Talk Event	32
Telecom Campaigns	38



ADNAN KHAN
Managing Editor

Dear readers,

Welcome to our latest issue, where we explore the transformative power of technology in Pakistan and its potential to revolutionize various sectors. From healthcare to connectivity, we delve into how advancements like AI, 5G, and mobile applications can shape our society and economy.

In the article "How AI Can Improve Service Delivery in Pakistan's Healthcare Sector," we highlight the significant role AI can play in enhancing healthcare services. By leveraging AI technologies, healthcare providers can improve diagnostics, optimize resource allocation, and streamline processes, ultimately leading to better patient outcomes and a more efficient healthcare system.

Addressing the issue of "Internet Shutdowns in Pakistan," we shed light on the adverse impact of restricted internet access. The article explores the effects on society, economy, and individual freedoms, emphasizing the need for policymakers to find alternative solutions that balance security concerns without hindering progress and connectivity. Whereas, in our article, "Why Mobile Users Aren't Willing to Pay PTA Taxes," we delve into the reasons behind this resistance and propose potential solutions. In "Navigating Pakistan's Economic Turmoil for the Tech Industry," we provide insights on how the sector can thrive in the current climate. By fostering innovation, supporting entrepreneurship, and nurturing a conducive ecosystem, Pakistan can position itself as a regional tech hub, attracting investment and driving economic growth.

Moreover, we present "Exploring the Potential of 5G: Insights from Experts at vivo's 5G Talk Event," which sheds light on the transformative capabilities of 5G technology. With its high-speed connectivity and low latency, 5G has the potential to revolutionize sectors such as healthcare, education, manufacturing, and entertainment. As Pakistan prepares to embrace 5G, understanding its benefits and challenges is vital.

In addition to insightful articles, we bring you comprehensive smartphone reviews, a list of the best mobile apps, some of the best e-government apps, a short profile of an inspiring tech personality and an updated list of top smartphones in the market. Our aim is to provide readers with valuable information to make informed decisions and stay ahead in the rapidly evolving tech landscape.

As Pakistan progresses, it is crucial to harness the power of technology to address societal challenges, foster inclusive growth, and unlock the nation's true potential. Let us embrace innovation, overcome obstacles, and build a brighter future where technology benefits all Pakistanis.

Sincerely,
Adnan Khan.

Feedback

info@phoneworld.com.pk
www.phoneworld.com.pk



Adnan Khan
Marketing Head & Managing Editor

Rizwana Omer
Senior Editor

Syed Shoaib Akram
Creative Designer

Onsa Mustafa
Laiba Mohsin
Usama Anjum

Contributors

Aqeel Shahid
Bureau Chief Karachi

Available @

Islamabad
Saeed Book Bank F7
Mr Book, F6
The Book Shop F7

Lahore
Feroz Sons, Z Block DHA
Kitabistan, H Block DHA Lahore
Nobel Books, H Block DHA
Variety Books Liberty

Karachi
Book Mart, Karachi Airport
Agha's Book Shop, Clifton
Fareed's Book Area, Ocean Tower
Mr. Old Books, Boat Basin
Hyperstar Dolman Mall

Peshawar
Welcome Book Shop, Saddar
London Book Company, Arbab Road



Printing:
GRAPHICS LINK
+92 300 9780309

Declaration No: 1196/2(124)/Press 201

Subscribe Now!!

& get per copy for just Rs.500

Payment:

☐

1. Cheque

I enclosed a Cross Cheque of RS _____ payable to Phoneworld.

☐

2. Bank Draft

I enclosed a Bank Draft of RS _____ drawn on the branch of any bank of Pakistan.

Contact information of the Recipient

Name: _____

Address: _____

Phone: _____

*Cheque & bank drafts should be in the name of "Phone World Magazine".
*Courier charges are included.

Internet Shutdowns in Pakistan: It's Impact on Society, Economy, and Freedom

Rizwana Omer



Governments throughout the world are still resorting to internet shutdowns and network disruptions to stifle protests, prevent election losses, strengthen military coups, or isolate war zones from the rest of the world. Mass rallies, military operations, coups, elections, community unrest, religious festivals, and school examinations were the most common times when governments imposed internet blackouts. The UN special rapporteur on the rights to freedom of peaceful assembly and of association, Clément Voule, makes an astute observation: “Shutdowns are lasting longer, becoming harder to detect, and targeting particular social media and messaging applications and specific localities and communities.” Despite these disheartening tendencies, there is a growing worldwide agreement, at least among liberal democracies, that preserving internet access is intrinsically related to freedoms of speech and association and constitutes a critical aspect of the global democracy and human rights agenda.

Shutdowns are lasting longer, becoming harder to detect, and targeting particular social media and messaging applications and specific localities and communities

Shutdowns in Pakistan: A Brief History

Internet shutdowns in Pakistan In 2005, Pakistan's military and anti-insurgency efforts in Balochistan included the first shutdown of the country's internet. However, similar ruptures did not take place in the rest of Pakistan until 2012, when Interior Minister Rahman Malik began ordering mobile network shutdowns. Since then, they have continued to happen on a regular basis in Pakistan. The frequency of these shutdowns has fluctuated throughout the years but has been rather stable in the last few.

The areas affected by these blackouts might be as small as a single neighborhood in Islamabad or as large as the entire country. When analyzing shutdown data, though, some trends become apparent. There are two main types of shutdowns: those that last for a few days to a week and those that last for several weeks or months. Within temporary shutdowns, the following five types predominate:

1. Events commemorating officially recognized political holidays, such as Pakistan Day or Independence Day.
2. Religious festival parties, such as or Ashura.

3. Massive political demonstrations in Islamabad or Rawalpindi or elsewhere in the country.
4. Visit of important foreign dignitaries.
5. Unspecified but perceived security risks that need temporary service interruptions.

The aforementioned Internet blackouts normally last for one day, but they have been known to last for as long as seven days. These blackouts frequently affect remote parts of Pakistan, like Balochistan and the tribal areas. In Pakistan, 4.5 million people in the Federally Administered Tribal Area went without access to the internet for over four years, making it the country with the longest internet shutdowns monitored by Access Now. The blackout ended in December 2021 after starting in 2016.

Consequences of Internet Blackouts for Pakistan

Since more and more people's lives are now dependent on the internet, the consequences of disruption have become more devastating.

The Pakistani economy is severely affected when the country's networks go down. When the government or other authorities cut down on access to the Internet and mobile services, it has far-reaching effects on numerous sectors of the economy.

In Pakistan, 4.5 million people in the Federally Administered Tribal Area went without access to the internet for over four years, making it the country with the longest internet shutdowns

Disruptions to Business: In today's world, where almost all businesses have shifted online when networks go down, it causes havoc for all businesses. The inability to contact customers, vendors, and partners during the network outage causes delays, decreased productivity, and lost opportunities for enterprises. Which in turn results in falling revenue creation and overall economic growth.

Financial Losses: Network shutdowns affect digital payments, and since the Pakistani economy is heavily dependent on online banking and financial services, restrictions on the Internet cause difficulties for businesses to conduct everyday business.

The general public also suffers since they cannot make payments and receive cash hence shattering the whole economic system of the country.

E-commerce and Retail: Network outages are devastating to e-commerce and other types of online shopping. These sites help make it easier for people to buy and sell things online, create new jobs, and advance the digital economy as a whole. Businesses suffer financial losses when clients are unable to make purchases on their websites because of a network outage. In addition, SMEs that rely largely on digital mediums face serious obstacles that stunt their development.

When the government or other authorities cut down on access to the Internet and mobile services, it has far-reaching effects on numerous sectors of the economy

Tourism and Hospitality: Network shutdowns can also impact the tourism and hospitality industries. While traveling, tourists increasingly rely on their mobile devices and the internet for everything, from booking accommodations to researching attractions. Tourists suffer and may even cancel their trips if networks are taken down. This directly affects the tourism industry, resulting in a decline in tourist arrivals, hotel bookings, and related revenues, negatively impacting the economy.

Shakes investor confidence: a conducive business environment is crucial to winning investors' trust, but network shutdowns put a dent in that trust. Domestic and foreign companies alike need dependable network infrastructure in order to function effectively. Investors may doubt the country's stability and the government's dedication to fostering a suitable business climate if the network goes down frequently or for an extended period of time. Foreign direct investment (FDI) and economic development might both suffer as a result.

Employment and Livelihoods: The economic consequences of network shutdowns go beyond mainstream businesses. Millions of daily wage earners, such as delivery riders, ride-hailing drivers, and independent contractors, lost their source of income when the internet went down.



Internet Shutdown of 9th May

Stable and uninterrupted network access is essential for a functioning economy, and network outages put a serious damper on that. If we just analyze the recent internet blackout that started on May 9th, 2023, we can see the devastating effect it created on our economy. The already struggling Pakistani economy took a serious hit from the closure, especially in the commercial sector. In response to the decision, business owners, startup founders, and IT industry professionals expressed concerns about the economic consequences.

Ride-hailing services like Careem and InDrive, as well as delivery apps like Foodpanda and Bykea, were severely impacted by the outage of mobile internet. About 160,000 riders are employed by these companies, and more than 12,000 eateries and home cooks are employing them through digital connections.

The industry lost 3 to 4 million dollars every day during the internet shutdown that started May 9th, as per P@sha. Freelancers in the country were similarly cut off from the rest of the world during the closure. Pakistan is the world's third-largest provider of freelance work, and a sizable portion of that is in the field of information technology.

Employers seeking Pakistani workers on the freelance marketplace Fiverr were met with a note that read: "This freelancer is in a location currently experiencing internet disruptions. As a result, they may not be able to fulfill orders as quickly as usual."

The industry lost 3 to 4 million dollars every day during the internet shutdown that started May 9th

When people don't have access to the internet, they can't use vital digital services like online payment systems, telemedicine, online food delivery, and ridesharing. As a result of the social media blackout, many little and medium-sized enterprises were negatively impacted.

How do people get around it?

- VPNs allow users to access restricted sites by connecting to a proxy server outside a banned nation. App shops, product websites, and APK packages sent over email or messaging systems provide popular free VPNs. These technologies help when a government blocks access to some areas of the internet but not others.

- Private servers can replace VPNs. Open VPNs can be censored by governments. Services like Outline, an open-source internet security initiative from Google's Jigsaw team, allow users to set up and share private servers everywhere. This decentralized method is useful when governments limit internet access as there is no central domain or IP address to ban.
- Mesh networks are efficient alternatives to VPNs when external connectivity is blocked. Mesh networks let people communicate without the internet or SMS. Instead, they use Bluetooth and Wi-Fi to create a network of nearby devices that can share data wirelessly.
- Serverless circumvention techniques can increase internet access during outages or circumvent permanent restrictions. Intra, GoodbyeDPI, Green Tunnel, and Geneva do not tunnel traffic or use third-party servers like VPNs, making them harder to filter.

Is there an end to it?

Security concerns do not appear to be an adequate reason for the frequency of shutdowns in Pakistan. Pakistan, like many other countries, undoubtedly confronts several security risks. "Many countries face terrorism; they don't block the internet; why do we?" It is hard to evaluate the efficacy of shutdowns in improving security and preventing terrorism since national security justifications are kept secret.

It is hard to evaluate the efficacy of shutdowns in improving security and preventing terrorism since national security justifications are kept secret

Internet blackouts continue to gain popularity despite the damage they inflict and the variable degree of effectiveness they achieve.

Is it essential to shut down the internet because it may be used to promote violence during demonstrations at this time?

Internet blackouts, whether whole or partial, are counterproductive and do nothing to benefit the people of Pakistan. While claims of national security are being made to justify the closure at the moment, there is no evidence to suggest that such measures actually improve security. Did demonstrations end in Pakistan when mobile internet was blocked by the government? There were still casualties and damage to infrastructure.

Is it possible that authorities are worried about the dissemination of false information if they do not restrict access to the internet?

But shutting down the internet won't halt the spread of misinformation. There have been many instances of political upheaval leading to internet shutdowns by the government. That has only served to spread more false information. People still talk, and still find ways to send messages, although credible ways to share information with large numbers of people are not available which merely fosters more confusion by spreading false information. Despite the recent blackout of 9th May, thousands of people came out on the roads to protest against Imran Khan's arrest. The Internet blockage didn't bear any fruits for the government but rather aggravated the situation further.

Alternatives to network shutdown

Rather than a complete shutdown, the government can implement measures to limit the bandwidth or speed of internet connections. This can be used to control the flow of information without completely cutting off access. Government can target specific websites or online content that violates laws or regulations without destroying the public's right to information. Above all, the government should invest in public awareness and education campaigns to promote responsible internet usage, digital literacy, and online safety. This approach aims to address concerns by empowering citizens with knowledge and promoting responsible behavior rather than resorting to restrictive measures.

Government should also enforce existing laws to combat cybercrimes, hate speech, misinformation, and other illegal activities. Strengthening law enforcement efforts can help mitigate risks and maintain a safer online environment. These laws shouldn't impact on the freedom of speech. The appropriateness and efficacy of these options vary depending on the circumstances, the setting, and the desired results. When contemplating steps to regulate internet access and use, government should give equal consideration to issues of security, human rights, and the possible economic and social effects.



Redmi 12C

Unveiling Xiaomi's Budget
Powerhouse with Impressive
Specs





Overview

The Redmi 12C has emerged as an enticing budget smartphone, offering an impressive array of features and performance.

The Redmi 12C packs a punch with its MediaTek Helio G35 processor, delivering smooth multitasking and reliable performance for everyday use. Xiaomi, a Chinese electronics company, has gained recognition for producing smartphones that combine affordability with impressive features. With a focus on providing value for money, Xiaomi has earned a strong reputation in the global smartphone industry.

Manufactured by Xiaomi, a renowned brand known for its quality devices, the Redmi 12C aims to provide users with an affordable yet powerful mobile experience.



Vibrant Display:

The device sports a 6.53-inch IPS LCD display, offering vibrant colors and sharp details for an immersive visual experience.

Powerful Performance:

The Redmi 12C's MediaTek Helio G35 processor ensures seamless multitasking and smooth performance for day-to-day tasks and casual gaming.

Extended Battery Life:

With its 5,000mAh battery capacity, the Redmi 12C provides ample usage time, catering to users who require long-lasting battery performance.



Average Low-light Photography:

Although the camera setup offers versatility, the Redmi 12C's low-light photography performance may lack the sharpness and detail found in well-lit conditions.



Final Verdict:

The Redmi 12C is an tempting option for budget-conscious consumers seeking a smartphone with creditable performance. Its powerful processor, vibrant display, and long-lasting battery life make it suitable for various day-to-day activities and multimedia consumption. However, the limited storage capacity and average low-light photography capabilities may be limitations for users with specific requirements in those areas. Although, limited storage option can always be solved by going for the higher variant option.



How **Artificial Intelligence** *is Changing the* **Face of Art**

What is AI Art?

AI art is any type of art **created using a machine learning algorithm.**



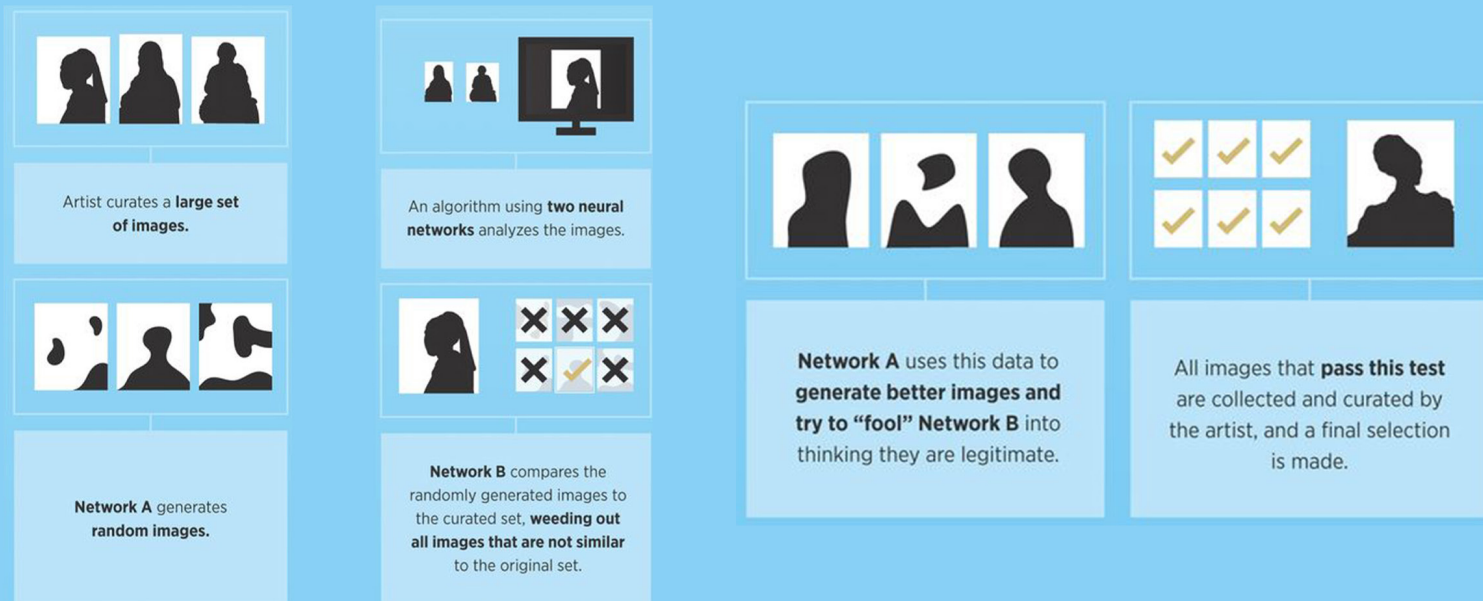
How Does AI Art Work?

AI art uses algorithms that learn and create desired aesthetics by analyzing thousands of images and sounds.



The Creative Process

AI art often makes use of algorithms called **generative adversarial networks**. Put simply, the process looks like this:



Who Owns the Art?

Human artists **own the rights to their work** as long as it's created using open source algorithms, training sets, or those they've created themselves.

AI Art *in* Action

FINE ART

Paris-based collective Obvious created a painting, titled *Portrait of Edmond Bellamy*, using AI which sold for \$432,500.

CULINARY ARTS

IBM's Chef Watson uses AI to help develop recipes and advise humans on food pairings and unique flavors.

LITERATURE

Creative technologist Ross Goodwin uses neural networks to generate poetry, screenplays, and literary travel fiction.

MUSIC

The world's first album composed and produced by AI, *I AM AI*, was unveiled in 2017.

DANCE

Choreographers use AI-driven machines to anticipate gestures, learn, and recreate dancers' signature styles.

Creative Thoughts on AI

"If we're building these algorithms that imitate our own intelligence, we get a chance to figure out: what does it mean to be creative?"

- Kyle McDonald, on using AI in dance

"...the whole curating the data, selecting the architecture, changing the architecture, training the model... it's all art. Even choosing neural networks to produce art that looks appealing is part of my art."

- Mario Klingemann, AI artist and pioneer of the movement

"When you read it, you are becoming the author, because there's no human intent behind the words. You get to project meaning onto them. The reader becomes the writer."

- Ross Goodwin, on using a car as the pen for his novel

"We're naturally scared of anything where we take away something from people, particularly something as precious as being creative..."

Jon McCormack, artist and professor of computer science

Why Mobile Users Aren't Willing to Pay PTA Taxes?

Usama Anjum



Mobile users in Pakistan are getting agitated by the PTA taxes that are piling up with the passage of time. We believe that our national telecom regulator, Pakistan Telecommunication Authority along with FBR is taking the wrong approach to impose such hefty taxes, especially on people who purchase phones for personal use. And guess what? It isn't even benefiting the national exchequer and we will support our argument with a few stats and figures.

According to a reliable source, FBR collected around PKR 80 billion in taxes during the year 2021-22. At that time, the taxes were low, and the highest taxes were around PKR 45k which were surely payable. On the other hand, the highest taxes now amount to PKR 180k on certain smartphones which is quite unreasonable. But there is a catch! Despite the imposition of such hefty taxes, FBR managed to collect only PKR 5 billion in the first 5 months of 2023. Now, you must be thinking why this decline in tax collection was reported. Here are some factors that contribute to people's decision to refrain from importing phones, providing a clearer picture of the situation.

Insane Amount of taxes

The first and foremost reason is the insane taxes that FBR had started to impose since last year. If you want to import an iPhone 14 Pro or Pro Max for personal use, you must pay around PKR 180k to register it with PTA. This iPhone already costs more than \$1000 and includes GST along with other value-added taxes. So, after paying this overall price, you import it into Pakistan and then must pay another excessive tax. It is certainly unfair to the end user. Simultaneously, you will have to pay the same amount of taxes on all smartphones (Samsung S23 Ultra, Pixel 7 Pro, etc.) costing \$1000 or more.

Despite the imposition of such hefty taxes, FBR managed to collect only PKR 5 billion in the first 5 months of 2023



Old Phones have More Taxes than their Retail Price

Can you even imagine that a 6-year-old iPhone has more tax than its purchase price? For instance, if you want to import an iPhone 8 that was launched six years ago, you will have to pay around PKR 70k to register it with PTA. It is shocking as the retail price of the iPhone 8 is just around \$100. You must pay around PKR 100k to register an iPhone X with PTA which costs around \$120-\$150.

Harsh Economic Conditions and Uncertainty

It is evident that Pakistan is going through a pretty hard time because of the debt crisis, depreciation of the rupee, meager foreign exchange reserves along with several other factors. The inflation rate has reached unprecedented levels. So, in these conditions, can you even think that people would even consider importing phones and paying such hefty taxes? Instead, they are going for alternate solutions. Some are purchasing feature phones to use their sim cards, while others are using patched phones.

You must pay around PKR 100k to register an iPhone X with PTA which costs around \$120-\$150

What can PTA do instead?

Review and revise tax rates: FBR along with PTA should conduct a comprehensive review of the tax rates imposed on mobile phones, considering the impact on consumers and the industry. The tax rates should be revised to ensure they are reasonable and proportionate to the value and model of the device.

Differentiate between personal and commercial imports: FBR should exempt all taxes for those who buy or import smartphones for their personal use. In addition, FBR must revise this tax structure for commercial importers and make it reasonable. As already mentioned, when the PTA tax was reasonable (around PKR 45k), more tax was collected.

Engage in dialogue and feedback: FBR and PTA can engage in regular dialogue with mobile users and commercial importers to seek their feedback on tax-related matters. By actively involving stakeholders in the decision-making process, the regulator can gain valuable insights and identify areas for improvement.

Consider long-term economic impact: The PTA should consider the long-term economic impact of high taxes on the mobile industry and the overall digital ecosystem. Excessive taxes discourage investment, hinder technological advancements, and limit digital inclusion. Striking a balance between tax revenue generation and industry growth is crucial.

Explore alternative revenue sources: Instead of solely relying on taxes imposed on mobile devices, PTA can explore alternative revenue sources.

Excessive taxes discourage investment, hinder technological advancements, and limit digital inclusion

This can include seeking funding from other sectors, implementing digital services taxes, or diversifying revenue streams to reduce the burden on mobile users.

Assess the impact of taxes on digital inclusion

PTA should conduct a comprehensive assessment of how taxes on mobile devices affect digital inclusion efforts in the country. If the taxes hinder access to affordable smartphones and connectivity, it may be necessary to reconsider the tax structure to ensure equitable access to digital services.

We suggest that PTA considers implementing a revised tax structure for smartphones, setting the minimum PTA tax at approximately PKR 5,000, while the maximum PTA tax should be around PKR 45,000. However, in the case of luxury editions of phones, such as Caviar's iPhone or McLaren Edition, we propose that FBR imposes substantial taxes, as these devices are more likely to be imported by the affluent segment of society.

Instead of solely relying on taxes imposed on mobile devices, PTA can explore alternative revenue sources



HOW AI CAN IMPROVE SERVICE DELIVERY IN PAKISTAN'S HEALTHCARE SECTOR



Laiba Mohsin

Artificial Intelligence (AI) has seamlessly integrated into our lives, often going unnoticed. From the convenience of navigating with Google Maps to the efficiency of spam filters in email, AI innovations have revolutionized various sectors, alleviating the burden of manual tasks. Across industries, AI has emerged as a transformative force, offering unprecedented opportunities for growth and advancement.

Artificial Intelligence (AI) refers to the development of computer systems capable of performing tasks that would typically require human intelligence. AI technologies aim to replicate or simulate human intelligence, enabling machines to perceive, reason, learn, and make decisions. These technologies encompass various subfields, including machine learning, natural language processing, computer vision, and robotics. AI applications span numerous sectors, from healthcare and finance to transportation and entertainment. With advancements in AI algorithms, computational power, and big data availability, AI has the potential to transform industries, improve efficiency, enable automation, and drive innovation. However, ethical considerations and responsible implementation are crucial to ensuring the beneficial and responsible use of AI for the betterment of society.

AI technologies aim to replicate or simulate human intelligence, enabling machines to perceive, reason, learn, and make decisions

The importance of Artificial Intelligence (AI) in healthcare cannot be overstated. AI has the potential to revolutionize the industry, bringing numerous benefits and advancements that can significantly improve patient outcomes and transform healthcare delivery. Here are some key reasons why AI is essential in healthcare:

Improved Diagnosis and Treatment:

AI algorithms can analyze extensive medical data, such as patient records and medical images, aiding in accurate diagnoses. By utilizing machine learning techniques, AI systems can detect patterns and anomalies and assist healthcare professionals in making precise diagnoses. This can lead to early disease detection, more effective treatment plans, and improved patient outcomes.

AI has the potential to revolutionize the industry, bringing numerous benefits and advancements that can significantly improve patient outcomes and transform healthcare delivery

Personalized Medicine:

AI facilitates the development of customized treatment plans by considering individual patient characteristics, genetic profiles, and medical histories. Through the analysis of large datasets, AI algorithms can identify correlations and predict responses to specific medications, enabling doctors to tailor treatments to individual patients. This approach enhances treatment efficacy, minimizes adverse reactions, and optimizes healthcare resources.

Streamlined Healthcare Delivery:

AI-powered systems can automate routine administrative tasks such as appointment scheduling, medical record management, and billing. This streamlines administrative processes, allowing healthcare providers to devote more attention to patient care. AI can also assist in triaging patients, prioritizing urgent cases, and reducing waiting times, ultimately enhancing the efficiency of healthcare delivery.

Disease Prevention and Early Intervention:

AI algorithms can analyze health data from diverse sources, including wearables, medical devices, and social media, to identify potential risk factors and patterns associated with diseases. By monitoring individuals' health parameters in real-time and providing proactive insights, AI contributes to early intervention strategies, empowering individuals to take preventive measures, and leading to improved overall health outcomes.

Accelerated Drug Discovery and Development:

AI plays a crucial role in expediting drug discovery and development processes. By analyzing vast datasets and simulating complex biological systems, AI algorithms can identify potential drug candidates, optimize molecular structures, and predict their efficacy and safety profiles. This significantly reduces the time and cost required to bring new drugs to market, ultimately benefiting patients by providing more effective treatment options.

Remote Healthcare and Telemedicine:

AI-enabled technologies, such as chatbots and virtual assistants, facilitate remote healthcare and telemedicine services. Patients can receive medical advice, consultations, and even remote monitoring of vital signs from the comfort of their homes. This is particularly valuable for individuals in remote areas, those with limited mobility, or during times of pandemics or natural disasters when in-person care may be challenging.

Data-driven Insights and Research:

The vast amount of healthcare data generated daily holds immense potential for research and insights. AI algorithms can analyze this data to identify trends, discover new patterns, and generate actionable insights. These insights can be used to improve public health policies, optimize resource allocation, and drive evidence-based decision-making in healthcare systems.

Pakistan's Healthcare Sector and AI

As Pakistan enters the AI era, there is immense potential to enhance service delivery and transform the healthcare sector. By embracing AI technologies and leveraging their capabilities, Pakistan can improve diagnostics, optimize treatment plans, and strengthen public health interventions.

During the COVID-19 pandemic, the developers in Pakistan developed AI technology to curb the spread of COVID-19, such as contact tracing apps that sent automated texts to people if they were within a

two-meter radius of a COVID-positive patient. Students at the GhulamIshaq Khan Institute and Detect-Now created an AI algorithm to screen for COVID-19 through voice recognition by sensing a patient's dry cough.

Researchers at Aga Khan University have successfully utilized AI algorithms to detect tuberculosis from chest X-rays, enabling early diagnosis and timely treatment. This application demonstrates how AI can assist healthcare professionals in accurate and efficient disease detection.

Similarly, a researcher at Aga Khan University is working on developing a machine learning model to identify high-risk pregnancies that may result in a poor outcome for the mother or baby in the first week of life.

Startups like SehatKahani and MyDoctor.pk have pioneered telemedicine platforms that leverage AI technologies to facilitate remote consultations and patient monitoring. These platforms bridge the gap between patients and healthcare providers, especially in underserved rural areas, and increase accessibility to quality healthcare. AI-powered chatbots such as SehatBot have been developed to provide virtual guidance and health-related information. These chatbots utilize AI and natural language processing to address common health queries, ensuring the widespread availability of healthcare information and reducing the burden on healthcare providers.



The National Health Services, Regulations, and Coordination (NHSRC) of Pakistan has established a health data analytics cell to harness AI algorithms in analyzing large datasets. This initiative aims to generate valuable insights for informed decision-making in public health interventions, resource allocation, and disease surveillance.

Startups like SehatKahani and MyDoctor.pk have pioneered telemedicine platforms that leverage AI technologies to facilitate remote consultations and patient monitoring

Similarly, Pakistan established the National Centre of Artificial Intelligence in 2018 with the aim of fostering scientific research, innovation, the redirection of knowledge to the local economy, and training in AI and affiliated fields. At the same time, it is heartwarming to witness start-ups like Motive working in applied and scientific research in AI and solving problems within Pakistan.

Despite its vast potential, integrating AI into Pakistan's health sector faces certain challenges:

Data Quality and Accessibility:

AI algorithms require access to comprehensive, diverse, and high-quality healthcare data for training and validation. Ensuring data privacy, standardization, and interoperability remains a challenge in Pakistan's healthcare ecosystem.

Ethical and Regulatory Considerations:

The ethical use of AI in healthcare must be ensured through robust regulations and guidelines. Protecting patient privacy, maintaining data security, and addressing biases in algorithms are critical considerations for responsible AI implementation.

Technological Infrastructure:

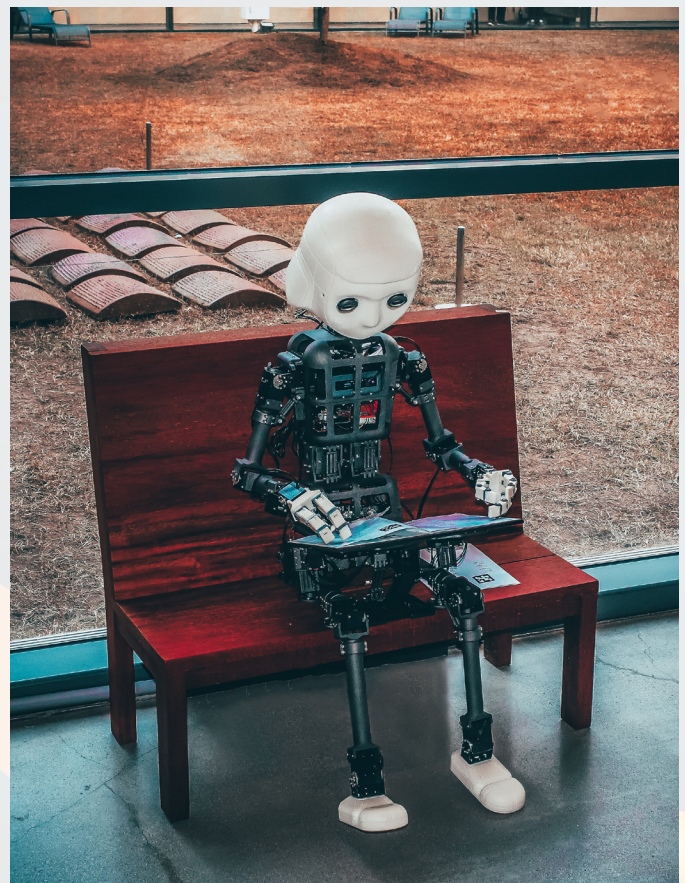
Adequate technological infrastructure, including high-speed internet connectivity and robust data storage capabilities, is essential for the seamless integration and utilization of AI in healthcare. Investments in infrastructure development are crucial to unlocking the full potential of AI.

Despite such challenges, the future of AI in Pakistan's health sector is promising. Continued investments in AI research, collaborations between academia, industry, and the government, and establishing AI-focused centres of excellence can accelerate innovation and adoption. With a strategic roadmap, Pakistan can develop its AI capabilities, attract talent, and become a hub for AI-driven healthcare solutions.

AI has the potential to revolutionize Pakistan's health sector by enhancing diagnostics, improving treatment outcomes, and strengthening public health interventions. The progress made so far, such as in AI-powered diagnostics, telemedicine platforms, and public health data analytics, is commendable. However, challenges related to data quality, ethics, and infrastructure must be addressed. By embracing AI, Pakistan can pave the way for a more efficient, accessible, and patient-centric healthcare system, ultimately improving the health and well-being of its citizens.

By embracing AI, Pakistan can pave the way for a more efficient, accessible, and patient-centric healthcare system, ultimately improving the health and well-being of its citizens

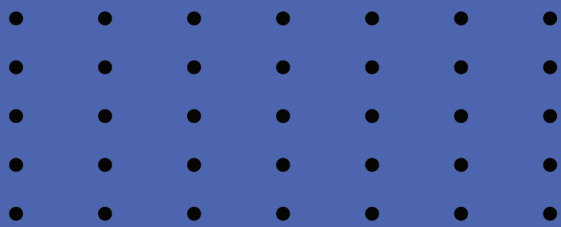
It is important to ensure ethical considerations, data privacy, and human oversight when using AI in healthcare. Upholding the trust, safety, and effectiveness of these systems requires continuous collaboration between healthcare professionals, researchers, and AI experts. Through such collaboration, we can maximize the potential of AI and advance its impact on our daily lives. Upholding the trust, safety, and effectiveness of these systems requires continuous collaboration between healthcare professionals, researchers, and AI experts.



Vivo V27e

A Feature-Packed Mid-Range
Device with Impressive
Design and Performance





VIVO V27e

vivo

The Vivo V27e has gained significant attention as a feature-packed mid-range smartphone that offers a combination of style, performance, and innovative features. Designed to cater to the needs of tech-savvy users, this device aims to provide a compelling mobile experience that stands out in its price segment.

The Vivo V27e features a vibrant and immersive 6.44-inch AMOLED display with a Full HD+ resolution, delivering sharp visuals and vibrant colors for an enjoyable viewing experience.

Powered by a MediaTek Dimensity 900 processor, the Vivo V27e offers smooth multitasking, fast app launches, and seamless navigation. It is equipped with 8GB of RAM, ensuring efficient performance and effortless multitasking.

The Vivo V27e excels in the camera department, featuring a triple-camera setup. It includes a 64-megapixel primary camera, an 8-megapixel ultra-wide-angle lens, and a 2-megapixel depth sensor.



Striking Design:

The Vivo V27e boasts a sleek and premium design that catches the eye.

Immersive Display:

The device features a vibrant and immersive AMOLED display, offering sharp visuals and vibrant colors.

Powerful Performance:

With its MediaTek Dimensity 900 processor and ample RAM, the Vivo V27e delivers smooth performance and effortless multitasking.



Limited Water and Dust Resistance:

The Vivo V27e lacks an official water and dust resistance rating, which may be a concern for users who prioritize device protection in harsh environments.

Average Battery Life:

While the device comes with a decent-sized battery, its battery life may not be as long-lasting as some competing smartphones in its price range.



Final Verdict:

The Vivo V27e offers a compelling package of design, display, performance, and camera capabilities at a competitive price point. Its striking design, immersive display, powerful processor, and impressive camera system make it an excellent choice for users seeking a mid-range device that delivers in multiple aspects.

If you prioritize a stylish design, immersive display, powerful performance, and versatile camera capabilities, the Vivo V27e is certainly worth considering.

DESI STARTUP



Salesflo

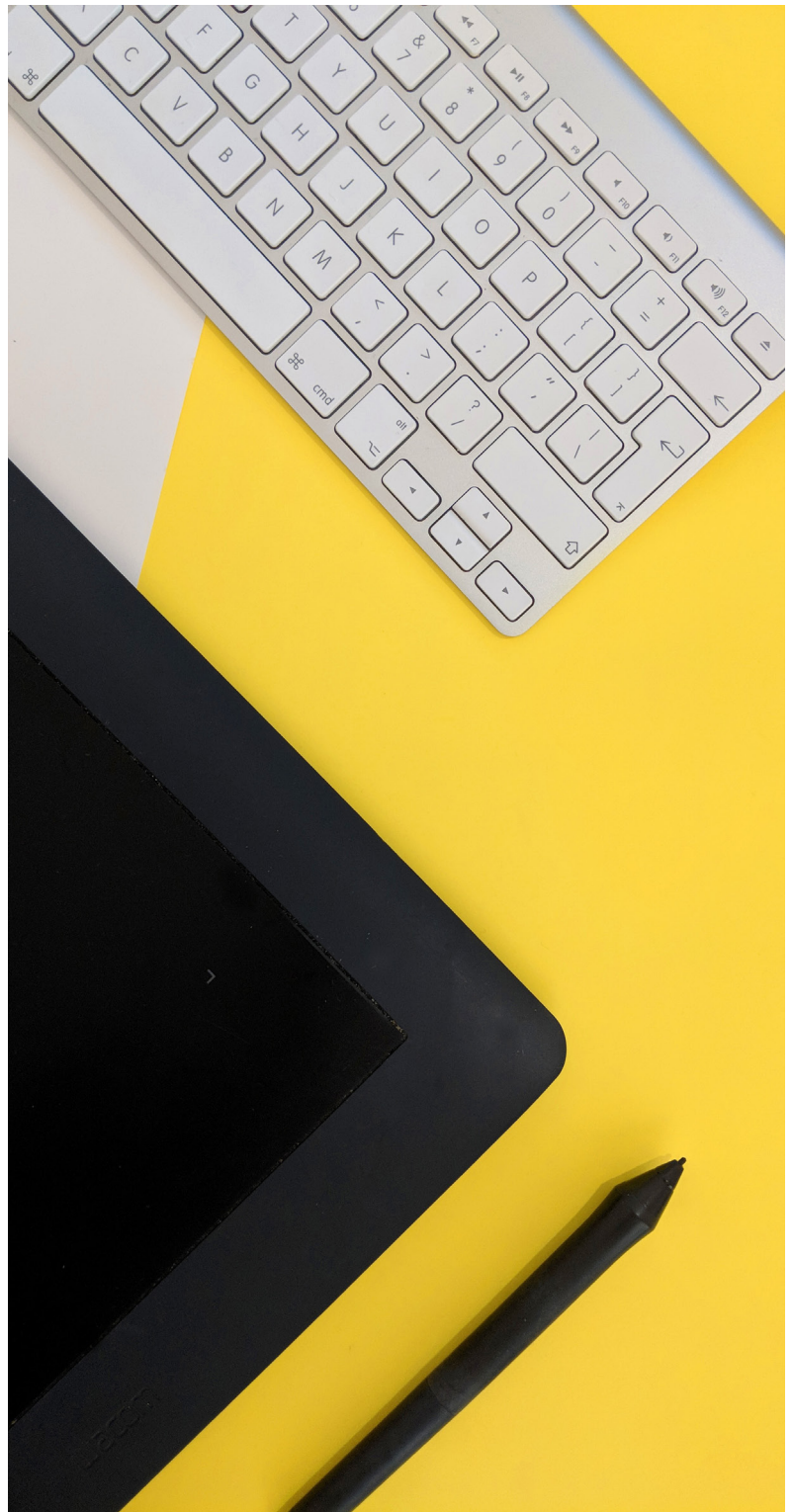
Revolutionizing Retail Digitization in Pakistan through Cloud-enabled Solutions and Innovative Technology.

Salesflo started the retail digitization journey for Pakistan in 2015 with the launch of Pakistan's first cloud-enabled Sales and Distribution platform.

Since its inception, Salesflo has on-boarded more than 40 enterprises FMCG, Pharma & Distribution companies representing more than Rs.400 billion in annual transacted goods.

Salesflo, through its continuous digitization, has laid down the rails for the entire Information, Financial, and Physical Supply Chain of Pakistan allowing efficient access to over 300,000 retailers across Pakistan. With innovative and futuristic business solutions, Salesflo has revolutionized workflow management with its retail technology.

Value chain insights, digitization, and the use of the latest cutting-edge technology have enabled Salesflo to automate retail workflows including order aggregation, inventory management, customer service, master data management, and payments.





ELON MUSK; The Entrepreneur behind SpaceX, Tesla, & Twitter Drama

ELON MUSK is a business magnate, inventor, and entrepreneur who was born in South Africa in 1971. He is best known for his work as the founder and CEO of SpaceX, Tesla, Neuralink, and The Boring Company, among other ventures.

Musk grew up in South Africa and later moved to the United States to attend college. He studied at the University of Pennsylvania, where he earned degrees in physics and economics. After college, he founded Zip2, a software company that provided online business directories and city guides to newspapers. The company was eventually sold for almost \$300 million.

Musk went on to co-found PayPal, an online payment system, which was sold to eBay for \$1.5 billion. With the money he earned from these ventures, Musk founded SpaceX in 2002, with the goal of reducing the cost of space travel and eventually colonizing Mars. SpaceX has since developed reusable rockets and has sent multiple missions to the International Space Station.

Musk also founded Tesla, a company that produces electric cars and energy storage systems, and is known for its innovative technology and sleek designs. He has also been involved in the development of Hyperloop, a high-speed transportation system, and Neuralink, a company that is working to create brain-machine interfaces to treat neurological conditions.

Despite his success, Musk has faced criticism for his management style and controversial statements on social media. However, he remains a driving force in the world of technology and is considered one of the most influential figures in Silicon Valley.

Elon Musk's tumultuous negotiations to buy and then overhaul Twitter have been a made-for-TV drama since it all began in April last year.

On October 27, just a day before the court-issued deadline, Musk closed the deal to purchase Twitter. Since then Elon Musk has been in news for the radical and odd changes he is doing and undoing to run Twitter.

Realme Narzo 50

A Budget-Friendly Contender
with Impressive Display and
Battery Life



Overview

The RealmeNarzo 50 is a budget-friendly smartphone that aims to offer a compelling combination of features and affordability. Packed with notable specifications, this device caters to users who seek a balance between performance and value.

The RealmeNarzo 50 offers a compelling package of design, display, performance, camera capabilities, and battery life at an affordable price point. Its sleek design, immersive display, powerful processor, versatile camera system, and long-lasting battery make it an attractive option for budget-conscious consumers. However, it's important to note that the device may face stiff competition in the crowded mid-range smartphone market.

PROS

Immersive Display:

The large 6.5-inch display with a 90Hz refresh rate delivers smooth visuals, enhancing the overall viewing experience.

Decent Performance:

Powered by the MediaTek Helio G85 chipset, the Narzo 50 provides satisfactory performance for everyday tasks and gaming.

Impressive Battery Life:

With its hefty 6,000mAh battery capacity, the device offers extended usage without frequent recharging.

CONS

Mediocre Camera Performance:

Despite the triple-camera setup, the image quality falls short in terms of sharpness, detail, and color accuracy, especially in low-light conditions.



Final Verdict:

The RealmeNarzo 50 presents a compelling option in the budget smartphone segment. Its immersive display, decent performance, and impressive battery life make it an attractive choice for users prioritizing visual experience and extended usage. However, the mediocre camera performance & lack of 5G connectivity may disappoint photography enthusiasts and users seeking faster network speeds.

Considering its affordable price point, the RealmeNarzo 50 stands as a strong contender among its competitors. If you prioritize display and battery life over camera capabilities and 5G connectivity, the Narzo 50 could be an excellent choice for you.



Our nation is currently enduring an exceedingly arduous period. Pakistan has encountered numerous economic hurdles, including fiscal deficits, a substantial debt burden, and dwindling foreign reserves. Pakistan's history has been characterized by periods of political transition, changes in the government, and tensions between various political parties. The current situation in Pakistan has affected almost all sectors of the country. Among them, it had the most significant impact on the telcos, OEMs, and the overall IT sector in the country. It is not only aggravating existing problems but creating new challenges as well. The tech industry in Pakistan has been facing several challenges. However, now things have even gotten more alarming because of the worsening economic landscape. Urgently addressing these issues is crucial for the growth and development of the sector.

Limited access to capital and infrastructure has been one of the major reasons for inadequate venture capital funds and financing options, making it difficult for entrepreneurs to scale their businesses. Moreover, the lack of supportive policies, the inadequacy of infrastructure, including reliable internet connectivity, a power supply, and data centers,

and a significant skill gap in the tech industry slowed the progress of the industry. We weren't even fully able to cope with these challenges when our industry came face-to-face with more disasters. The current economic and political situation in Pakistan has completely shattered the industry.

the lack of supportive policies, the inadequacy of infrastructure, including reliable internet connectivity, a power supply, and data centers, and a significant skill gap in the tech industry slowed the progress of the industry

The depreciating rupee is one of the major issues that has been causing a balance of payments problem. The fluctuation of the Pakistani rupee against the US dollar has a substantial impact on IT companies in the country. This is because many of these companies rely on importing hardware and software components from foreign countries, and the cost of these imports can increase or decrease based on changes in the exchange rate. The Pakistani rupee has been losing its value against the USD persistently for the last two years.

When the Pakistani rupee depreciates against the US dollar, it becomes more expensive for IT companies to import the necessary components for their products and services. This leads to a decrease in profit margins and even losses as companies are forced to increase their prices to compensate for the higher costs. The devaluation of the rupee also made it challenging for some startups to secure the necessary funding to scale their operations and attract high-quality talent. The increased cost of maintenance and the low purchasing power of consumers led to dwindling profits, which resulted in the eventual exit of these startups from the market. Many startups in Pakistan had to say goodbye due to these problems. Among them, Airlift, Sheops, Ricult, etc. are the major ones.

The other major issue is the ban on LCs (Letters of Credit) amid declining foreign exchange reserves. A ban on LCs, or letters of credit, has a significant effect on IT companies in Pakistan. LCs are a common form of payment used in international trade, where a bank guarantees payment to a seller once certain conditions are met, such as the delivery of goods or services. When LCs are banned, it creates several challenges for IT companies.

The Pakistani rupee has been losing its value against the USD persistently for the last two years

Without LCs, IT companies struggle to receive payment for their products and services from international customers, which can affect their cash flow and ability to invest in future projects. If IT companies are unable to receive payments from international customers, they may lose business. The ban on LCs has also impacted local manufacturing, due to which no new smartphone or gadget has been launched in the past few months. The local manufacturing plants have manufactured or assembled only 2.35 million mobile handsets during 2023, as compared to 21.94 million mobile handsets during the calendar year 2022. It is no doubt a drastic decrease in locally manufactured mobile handsets. In addition to that, the prices of phones have skyrocketed in the past few months, making the handsets out of reach for the middle class. As a result of inflation, people started buying used phones, which further impacted the already flagging smartphone market. IT companies also face challenges in importing necessary hardware and software components for their products and services as suppliers become hesitant to extend credit without the security of an LC.

The local manufacturing plants have manufactured or assembled only 2.35 million mobile handsets during 2023, as compared to 21.94 million mobile handsets during the calendar year 2022

Political and economic uncertainty has led to a brain drain, with skilled professionals seeking opportunities abroad. It has resulted in a shortage of skilled people. According to reports from the Bureau of Emigration & Overseas Employment, 127,400 Pakistanis left the country up to February during the first two months in search of jobs.

Building a Conducive Environment for Innovation and Investment in Pakistan

Unlocking the potential of the tech industry requires proactive measures from the government to create a favorable ecosystem. It is hard to deny the significance of supportive policies, public-private partnerships, digital transformation, and addressing challenges faced by telecommunication companies in Pakistan. By implementing these strategies, Pakistan can foster innovation, attract investments, and position itself as a thriving hub for technological advancement.

Supportive Policies to Encourage Tech Industry Growth:

Tax incentives: Implementing tax breaks and incentives can attract investments and stimulate the growth of tech companies.

Research and development grants: Providing financial support for R&D activities can encourage innovation and technological advancements.

Simplified regulatory frameworks: Streamlining regulations and reducing bureaucratic barriers can facilitate ease of doing business for tech companies.

According to reports from the Bureau of Emigration & Overseas Employment, 127,400 Pakistanis left the country during the first two months in search of jobs



Public-Private Partnerships (PPPs) for Infrastructure Development

Capitalizing on PPPs: Collaborating with the private sector can bring capital and expertise to execute infrastructure projects efficiently.

Addressing funding constraints: Leveraging PPPs becomes essential when traditional public procurement methods are insufficient to meet infrastructure needs.

Ensuring timely completion: By partnering with private entities, the government can enhance project execution within budgets and deadlines.

Digital Transformation and E-Governance Initiatives

Driving tech demand: Promoting e-governance initiatives, digital payment systems, and e-commerce platforms can spur the growth of tech companies.

Skilled workforce development: Encouraging specialized tech programs in universities and vocational training institutes can nurture a pool of skilled professionals for the industry.

Supporting startups and entrepreneurs: Establishing a supportive ecosystem with access to financing, mentorship programs, and incubators/accelerators fosters innovation, risk-taking, and collaboration.

Addressing Challenges in the Telecommunication Sector

Incentivizing investment: Implementing measures like tax breaks or subsidies can encourage telecommunication companies to invest in infrastructure despite economic challenges.

Constructive dialogue with stakeholders: Engaging in meaningful conversations with industry stakeholders can help identify and implement concrete solutions.

Collaborating with investors: Seeking collaborations with local and international investors can secure funding for expansion, R&D, and innovation despite limited access to financing.

Pakistan possesses immense potential to excel in the tech industry and become a center for innovation. By implementing supportive policies, engaging in public-private partnerships, driving digital transformation, and addressing telecom sector challenges, Pakistan can create an enabling environment for the growth of the tech industry.

TECH TWIST



01

The Most Powerful Supercomputer in the World

Riken Research Lab and Fujitsu developed the Fugaku supercomputer. In June 2020, Fugaku dethroned IBM's Summit supercomputer as the most powerful in the world.



02

Wikipedia is run and maintained by thousands of humans and hundreds of bots

Everyone knows Wikipedia is powered by thousands of human contributors. On the other hand, most people don't realize hundreds of bots contribute to the effort, too.

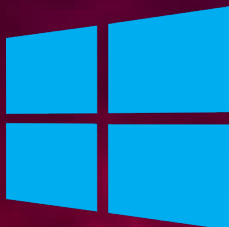


03

Google's Name comes from a Spelling Error

A "googol", in mathematics, is the number 1 followed by 100 zeros. Larry Page originally wanted to call the search engine googol.

By the time the company was formed, it switched its name to Google. Perhaps the name is easier to spell and looks friendlier on the screen.



04

The original name of Microsoft Windows was "Interface Manager"

In 1981, Microsoft began the development of a program called "Interface Manager". Most people won't recognize that name because Interface Manager became Windows in 1983.



05

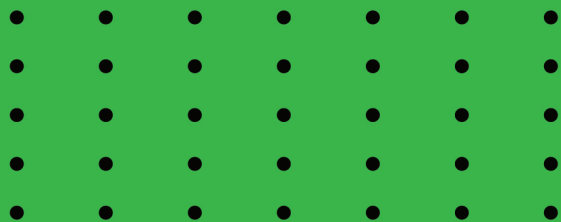
What Was the First Ever .COM Domain?

Symbolics Inc. registered the first.COM domain on March 15, 1985. For obvious reasons, the company chose to register Symbolics.com on the World Wide Web.

Infinix Smart 7

A Budget-Friendly Device
Packed with Features





The Infinix Smart 7 has been generating buzz as an affordable smartphone that offers an array of impressive features, making it a compelling choice for budget-conscious consumers. Designed to deliver outstanding value without compromising essential functionalities, the Infinix Smart 7 aims to redefine the budget smartphone segment.

With a large 6.82-inch HD+ display, the Infinix Smart 7 captivates users with its immersive visual experience, presenting vibrant colors and sharp details. The device is powered by a MediaTek Helio A25 processor, ensuring smooth multitasking, seamless navigation, and optimal performance for day-to-day tasks, browsing, and light gaming.

One of the standout features of the Infinix Smart 7 is its long-lasting 6000mAh battery. In terms of design, the Infinix Smart 7 showcases a sleek and modern aesthetic, with slim bezels and a comfortable grip, making it visually appealing and ergonomic. The device also incorporates a rear-mounted fingerprint sensor for enhanced security and convenient unlocking.



Versatile Camera Setup:

The device comes with a dual-camera system, including a primary lens and a depth sensor, allowing users to capture clear and detailed photos.

Immersive Display:

The Infinix Smart 7 features a large 6.82-inch HD+ display that offers vibrant colors and sharp details for an enjoyable visual experience.

Decent Performance:

Equipped with a MediaTek Helio A25 processor, the Smart 7 delivers reliable performance for day-to-day tasks, browsing, and light gaming.



Absence of USB Type-C:

The device is equipped with a micro-USB port instead of the faster and more versatile USB Type-C, which may be a drawback for users who prefer the convenience of reversible connectors and faster data transfer speeds.

Slow Charging Speed:

The Infinix Smart 7 supports only 10W charging, which is relatively slower compared to other smartphones in its price range.

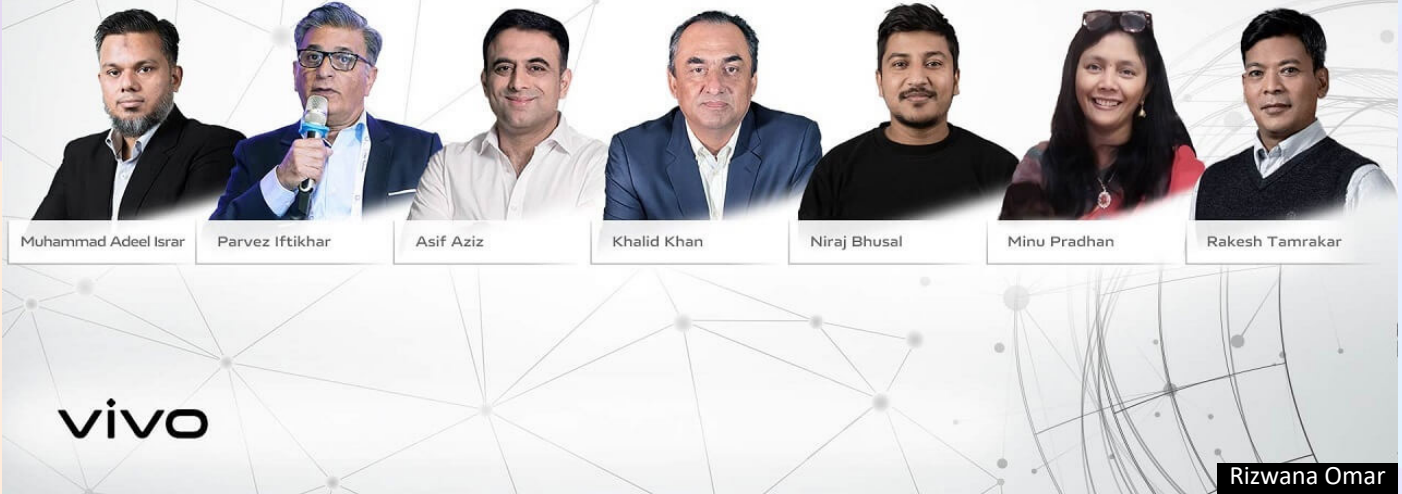


Final Verdict:

The Infinix Smart 7 is a commendable option for individuals seeking an affordable smartphone with respectable features. Its impressive display, long-lasting battery life, and decent performance make it suitable for everyday use and multimedia consumption. However, the limited internal storage capacity and average low-light photography performance may be limitations for users with specific needs in those areas.

Considering its budget-friendly price point, the Infinix Smart 7 delivers value and functionality for users on a tight budget. If you prioritize a large display, extended battery life, and general performance, the Smart 7 could be a suitable choice for you.

Bringing you a boundless intelligent world



Exploring the Potential of 5G: Insights from Experts at vivo's 5G Talk Event

vivo, a leading technology company, recently hosted a virtual event, the 'vivo 5G Talk', that brought together industry experts from Pakistan and Nepal for a conversation about the current state of 5G in the region and its potential to transform business and everyday life in the years to come. The event was held live through a conference call between 5G industry experts from both countries.

The launch of the vivo 5G Talk was designed to facilitate constructive conversations to promote advancements in the field of telecommunication technology. Themed 'Bringing you a Boundless Intelligent World', the event and panel discussion aimed to explore different aspects of the telecommunication ecosystem, providing a platform for cross-sector engagement. This event is a testament to vivo's commitment to fostering innovation and progress in the field of technology, emphasizing their belief in the potential of 5G technology to drive development.

vivo's 5G Talk virtual event featured a panel of six experts from Pakistan and Nepal who engaged in an insightful conversation on the potential of 5G technology in the region. This event featured six experts, including Parvez Iftikhar, International Consultant on ICT Policy and Regulation;

Khalid Khan, Founder and Chairman of Central Asian Cellular Forum; **Asif Aziz**, Chief Business Officer at Jazz, Pakistan; **Niraj Bhusal**, Non-Gazetted, Ministry of Finance, Nepal; **Muhammad Adeel Israr**, Chief Technology and Enterprise Business Officer of NCELL Axiata, Nepal, and Lead CTO, Group Operations at Axiata; and **Minu Pradhan**, Director at Nepal Telecom.

The launch of the vivo 5G Talk was designed to facilitate constructive conversations to promote advancements in the field of telecommunication technology

During the event, the experts brilliantly showcased the potential benefits of 5G for developing countries like Pakistan. They stressed that 5G could be a game-changer, offering revolutionary solutions to pressing infrastructure challenges such as remote healthcare and education and IoT for agriculture and disaster recovery. The experts also discussed the significance of creating an ecosystem that promotes innovation and entrepreneurship by constructing the required infrastructure and putting in place effective regulatory policies.

Furthermore, the experts recognized that the commercial viability and collaborative efforts between the public and private sectors would play a pivotal role in unlocking the full potential of 5G in these countries.

5G could be a game-changer, offering revolutionary solutions to pressing infrastructure challenges such as remote healthcare and education and IoT for agriculture and disaster recovery

Rakesh Tamrakar, a leading specialist at vivo Communications Research Institute, also offered valuable insights during the event. He noted that despite the robust growth in the region, Asia is yet to fully benefit from 5G deployment. However, Tamrakar enlisted vivo for its relentless efforts in 5G research and development, which have led to the creation of cutting-edge innovations that are now a part of the global 5G standards. His remarks underscored vivo's commitment to advancing the 5G revolution and empowering communities to thrive in the new digital landscape.

vivo has designed a wide range of products ready for the next generation of connectivity, catering to different consumer preferences and budgets. The X and V series are among the slimmest 5G phones in the market thanks to vivo's innovative 3D stacking technology, also offering exceptional power-saving features and reliable connectivity, backed by years of R&D. With over 100 experts dedicated to 5G research, vivo is a leading standalone smartphone contributor to 3GPP standards, with more than 10,000 5G proposals and over 5,000 invention patents. As a pioneer in 5G technology and one of the largest smartphone makers, vivo prioritizes user needs and develops cutting-edge innovations that enhance everyday experiences worldwide.

In conclusion, vivo's 5G Talk event brought together experts from Pakistan to discuss the potential of 5G to transform the region. The conversation focused on creating an environment for innovation and entrepreneurship, commercial viability, and the benefits of 5G for developing countries. With years of research and development, vivo is well-positioned to empower communities to thrive in the new digital landscape. Such events enhance vivo's credibility and contribute to its ongoing success in the Pakistani smartphone market.



vivo



#LovePakistanLovevivo

vivo's 6th Anniversary in Pakistan: Transforming the Tech Landscape with Trailblazing Innovations

vivo, the renowned global smartphone brand, joyfully commemorates its 6th anniversary in Pakistan — extending heartfelt gratitude to its cherished employees and loyal consumers. This milestone serves as a testament to the unwavering support and commitment of the Pakistani community, propelling vivo towards new heights and remarkable achievements in the region.

Driven by its dedication to fostering strong customer relationships and enriching the smartphone market, vivo has gained widespread recognition and trust in Pakistan. With 17 Service Centres and over 9200 Retail Stores, vivo ensures convenient accessibility of its products and after-care services.

By prioritizing customer needs and providing seamless experiences, vivo empowers and supports Pakistani consumers throughout the smartphone usage cycle. With its focus on customer needs and dedication to providing seamless experiences, vivo stands as a true symbol of its commitment to caring for and supporting Pakistani consumers throughout their smartphone journey.

Mr. Eric Kong, Chief Executive Officer of vivo Pakistan, stated, "As we celebrate vivo Pakistan's remarkable 6-year anniversary, I am filled with immense pride and gratitude for our journey.

vivo's tremendous success in Pakistan has been a cohesive effort propelled by our dedicated employees and valued customers. Over the years, we have overcome challenges and achieved significant milestones, thanks to our innovation-led approach and the unwavering support of our loyal customers. With localization and innovation at the core of our efforts, we have brought leading technologies to Pakistan, benefiting countless users. Guided by the BENFEN philosophy, we remain dedicated to building strong relationships with our customers. As we move forward, we will continue expanding our solutions — ensuring we deliver the best technology to meet the evolving demands of our Pakistani consumers."

Over the course of the past six years, vivo has made remarkable progress and achieved significant milestones since its establishment in Pakistan. By prioritizing innovation, quality, and customer satisfaction, vivo has consistently pushed the boundaries, and delivered outstanding products and experiences to Pakistani consumers. Looking towards the future, vivo maintains its unwavering dedication to providing customers with the best, while embracing the latest technologies and staying ahead in the ever-evolving smartphone industry.

UNLEASHING TOMORROW'S TECHNOLOGY – TODAY

Come together with risk-takers,
innovators and enterprise titans
to do business

Register for your pass
www.mwclasvegas.com

MWC[™]
GSMA

In partnership with

ctia[™]
●●●●●●

LAS VEGAS
SEPTEMBER 26 – 28
2023



Chat Lock

How to lock individual chats in WhatsApp

Whatsapp has rolled out a new Chat Lock feature that allows users to lock individual chats and group chats for added privacy and security. To use this feature and lock individual chats on WhatsApp, follow our step-by-step guide:

STEPS TO BE TAKEN

STEP 1

Open the updated WhatsApp on your phone

STEP 2

Scroll down the chat list or search for the contact whose chat you want to lock individually

STEP 3

Open the chat window of the contact and tap on the name at the top

STEP 4

Scroll down and tap on the Lock chat option

STEP 5

Enable the toggle and authenticate using your screen lock

STEP 6

Note that WhatsApp automatically takes the phone's lock screen method to lock the chats.

NOTE

That's it! That particular chat is now locked on WhatsApp. Repeat the same for other chats that you want to lock.

ACCESS LOCKED CHATS

All the locked chats on WhatsApp move under a new tap Locked Chats. Simply swipe down from the top on the chat list screen to access the Locked Chat option.



Teleschool Pakistan App

Ministry of Federal Education and Professional Training has taken the initiative to provide free digital learning for students anywhere, anytime. The Teleschool app is an additional educational resource, covering all grades and accelerated learning programs for both in-school and out-of-school children. Download now and start learning.



Mental health application Humraaz

Government of Pakistan's initiative for citizens' mental well-being. The aim of the initiative is to provide free consultation services and to improve the health and quality of life of people suffering from deteriorating mental health.



NSOR to identify Sex Offenders

The National Database and Registration Authority (Nadra) introduced a new platform National Sex Offenders Registry (NSOR), coupled with SMS verification for citizens to identify sex offenders of children and women.

The NSOR service helped citizens and institutions across the country to identify and track individuals who have been convicted of sex crimes against children and women.



TELECOM CAMPAIGNS

JazzFi Calling: Connection Bina Tension

Jazz is the first company in Pakistan to offer VoWiFi (Voice and Video over WiFi) service. With this service, you may talk via WiFi. The new ad shows off this function and how it may be used. Initially, only compatible devices may use the functionality. It's a standard advertisement explaining the advantages of Jazz Fi and how to activate the service on your mobile device.



Verdict: A basic TVC

PUBG Mobile: KheloDiJeetny k Leye



The TVC promotes the most efficient usage of the PUBG mobile game and features the great actress Nadia Afghan. The commercial depicts a mother who is worried about making ends meet during Ramadan and scolds her kid for spending too much time playing mobile games with his friends. Her son and his friends devised a plan to increase sales at the restaurant by hosting a PUBG mobile competition. By the end, the eatery was packed with diners and PUBG enthusiasts. Overall, the ad's theme of "KheloDiJeetny k Leye" was conveyed well.

Verdict: : A positive, effective advertisement

Speed ka scene on Karo with Ufone 4G Blaze!

Blaze is a portable 4G Wi-Fi Hotspot that runs on a rechargeable battery and can link up to 10 Wi-Fi-enabled devices simultaneously. In the commercial, a little youngster uses his Ufone Blaze to access the web at lightning speed. Ufone 4G service centers have Blaze for PKR 5,500 (one-time charges). In general, it's just a boring advertisement that doesn't provide you any details on the bundles.



Verdict: A Very Ordinary TVC

OLX: No Khawari, No Lara

OLX is a digital platform that will let you buy and sell any product anywhere in Pakistan. The TVC features Fawad Khan and Sanam Saeed. The series of these comedic commercial promote OLX's ease of use while buying and selling old goods. The TV commercial is interesting and makes you consider utilizing OLX to purchase or sell used goods.



Verdict: *A fun and effective commercial*



Telenor's Stop the Clock Offer TVC

Telenor introduces a stop the clock the offer for its users. The TVC portrays a young girl who is chatting on her phone repeatedly. The commercial isn't very good, but the deal is fantastic. For just Rs 3.5, you can make an hour-long call on Telenor. You are under no obligation to sign up for this promotion. The first minute of your call with Telenor will cost you, but the remaining 59 will be completely free.

Verdict: *A mediocre commercial but a tempting offer*

Vivo V27e Glowing Portrait

Vivo has recently revealed a flagship smartphone with impressive hardware and software. The commercial does a great job of showcasing its stunning visual aesthetic. The V27e's 8GB of standard RAM and 8GB of Extended RAM are both quite respectable. The MediaTek Helio G99 is included. The V27e also has cutting-edge camera hardware in the form of a 32MP HD Selfie Camera.



Verdict: *Meh.....!!!!*



GAMES & APPLICATIONS

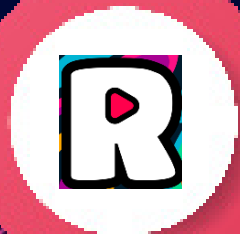


Find that Photo

Find that Photo is an app for browsing around the photos you have on your phone. It indexes the photos and uses AI to sort them with a variety of keywords. You can then search through your photos to find the one you're looking for.

Mood Journal

Mood Journal is like most other mood journals in the Google Play Store. This one differentiates itself from others by having a video element. Users can take a selfie video to describe their feelings and then play back the videos later to see how they were. You also get the usual stuff like mood tracking over time, complete with graphs, along with articles to improve your mood.

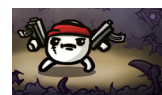


Reelsy Reel Maker

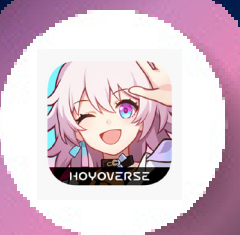
Reelsy Reel Maker is a video editing app designed for short-form videos like you see on Instagram, TikTok, and YouTube Shorts. There are a ton of these on the Play Store, and Reelsy adds another to the mix. It features a bunch of templates across ten different categories.

Brotato

Brotato is an action game and a top-down shooter. You play the role of a potato with up to six weapons to kill as many bad guys as you can. The weapons auto-fire while you aim manually. Enemy waves last up to a minute and a half, and you keep yourself upgraded to keep ahead of the stronger and stronger enemies.



Honkai: Star Rail



Honkai: Star Rail invites players to board the Astral Express and travel across unique worlds, each filled with different adventures and surprises. During the whirlwind trip of a star-chasing ride, players will meet new companions as well as faces familiar to series fans, resolving [Stellaron]-related conflicts, and eventually unraveling the mysteries concealed within.



Coloring Kids

With a wide range of delightful illustrations to choose from, kids can explore their artistic side and enjoy the fun of coloring right on their digital devices. The app offers a user-friendly interface and a variety of brush sizes to cater to different coloring styles.

Waldo Testing

Waldo allows mobile developers, designers, and product managers to record and monitor user flows. It tests those flows with every new build and reveals any UX differences. Waldo works with Android and iOS (but this submission is specifically for the Android beta).



Krisp

Krisp is a superior noise-cancelling app that mutes background noise in real-time calls. With one click it removes all extraneous noises for incoming and outgoing calls. Available on Windows, Mac, and iOS.



Hotspot Shield

Hotspot Shield VPN, one of the best free VPNs for Android with over 100 million downloads on Google Play, allows you to securely access blocked sites by connecting from 5 different devices.



Stardew Valley

Move to the countryside, and cultivate a new life in this award-winning open-ended farming RPG! With over 50+ hours of gameplay content and new Mobile-specific features, such as auto-save and multiple controls options.

SMARTWATCHES

UNDER

PKR 5000



i9 PRO MAX

PKR/-4,399



HW7 MAX

PKR/-4,999



HAYLOU LS05

PKR/-4,999



STAY TUNED



R
E
L
A
U
N
C
H
I
N
G

SOON

WWW.PHONEEXPRESS.PK

vivo



V25 5G | V25e

Gorgeous Portrait



*Color Changing Glass is only available on the Sunrise Gold edition and Aquamarine Blue edition.