



Thakaa Sport's Artificial Intelligence Challenge







Thakaa Centers

Technology innovation centers focused on empowering enterprises and entrepreneurs to realize the Kingdom's 2030 vision, by creating and enabling promising startups, and increasing the efficiency of existing ones. We guide the SME sector to develop and employ advanced and emerging technologies to increase their competitiveness in the region as well as connect entrepreneurs with decision-makers in their respective areas.



The first specialized center to service Entrepreneurs and SMEs In the kingdom



Our Goals



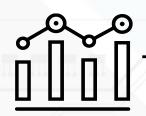
Stimulate the Ecosystem

Raising the efficiency of the national human capital by equipping them with skills and knowledge required in the market, and supporting the entrepreneurial tech societies.



Support SMEs

Adding a competitive advantage to SMEs by using specialized tech to help them remain in the market and reduce their exit rate.



Empowering Entrepreneurs

By Creating tech startups specialized in the center areas of focus, and helping them launch a pilot marketable product.

Key Services and Programs



Challenges

Motivate and encourage entrepreneurs and innovators to find technical solutions to real problems

Entrepreneur



Rowad Thakaa

Enables innovative existing enterprises to develop their business by adopting emerging tech solutions

SMEs



Bootcamps & Workshops

Immersive courses and sessions presented by our emerging tech specialists or partners

s Entrepre



Consultations

Consultancy hours specialized in business development and tech innovations

SMEs

Entrepreneu



Thakaa Opportunities

Ideas that can be developed into products using emerging technologies, with the aim to solve real challenges presented by government and private entities

Entrepreneur



Library

Online reliable open-source materials in emerging technologies and entrepreneurship, to ensure the continuity and sustainability of the center's impact

SMEs

Entrepreneurs

Community



Thakaa Community

Provides individuals and technical communities the opportunity to socialize and share knowledge through meetups hosting experts and influencers in tech-entrepreneurship

SMEs

Entrepreneur

Community



Innovation Lab

A state-of-the-art laboratory to develop MVP's and prototypes and turn innovations into marketable products

SMEs

Entrepreneur

Thakaa Challenges

Prototypes

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Large-scale challenges that aim to motivate and encourage entrepreneurs and talented individuals, where they collaborate and compete to create innovative solutions based on the analysis of real data provided by the center, in cooperation with official entities including:

+92

















+430 Participants **Human Resources**



+400 Participants Health



+370 Participants Housing



+300 Participants Road safety

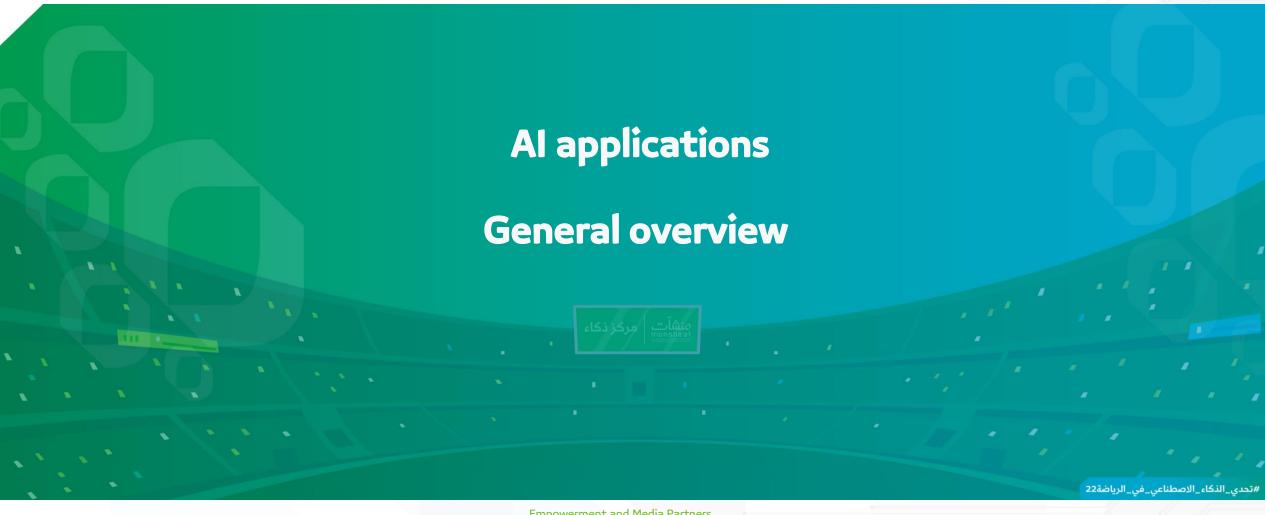




+570 Participants Al opportunities





















Overview

The importance of AI applications in Saudi Arabia

Through Vision 2030, Saudi Arabia is creating an AI-friendly system that supports the use of modern technology, big data concepts and solutions.

An Arab News report showed that Saudi Arabia's big data and artificial intelligence market could grow up to \$891.7M within five years.

The contribution is open to both local and foreign investors, as the Kingdom seeks to establish more than 300 AI startups by 2030.

Sources:

- https://www.arabnews.com/node/1913806/business-economy
- https://thearabweekly.com/saudi-arabia-invest-20-billion-artificial-intelligence-projects

Overview

The importance of AI applications in the sports sector

The sports sector has been using statistics and data analytics for quite some time, making it a fertile ground for AI and machine learning applications, these applications have contributed to the rapid growth in the sector, making them a requirement for sports excellence.



Examples of global tech solutions:







BAYES HOLDING

More examples: <u>here</u> <u>and here</u>

Overview

Some of the positive effects of using AI applications in the sports sector:



Improve players' training costs direction based on their performance data



Improve match results forecasting and sports leagues assessment



Increase the accuracy of results and the ability to properly arbitrate





















Challenge Goals





Thakaa Center team works to challenge the creativity of AI applications by enabling entrepreneurs and national talents to design innovative solutions and deliver products based on AI and data science technologies.



Increase local companies in the Saudi market, which contributes to the diversity of sectors



Support innovative entrepreneurs by showcasing their tech solutions



Focus on modern technologies in sports















Challenging Paths







Health Care

Technical solutions and tools that use AI to collect players' health data



Community sports

Technical solutions that enable and encourage the community to exercise



Talents hunts

Al-powered technology solutions to facilitate talent exploration



Analytics

Help analysts predict match results



Training

Computer vision and virtual reality solutions to improve athletes' performance and assess sports positions in training



Stadium Experience

Use virtual and augmented reality to enhance audience experience



Media Coverage

Deep learning technology to create a fully automated montage



Open Track

Create AI solutions to improve the sports sector and its stakeholders

Empowerment and Media Partners

*Any solution based on AI can be shared. The tracks mentioned are suggestions. *B2B or individuals (B2C) solutions can be shared.



















الخط الزمنى التحدي

















Programs and Events During the Challenge





During the challenge, the focus will be on achieving the goals through the following activities:



Monetary Prizes and investment opportunities



Workshops
in creating solutions and
building prototypes.



Dialogue sessions and rich meetings



Intensive Consultations with the center's AI and Data Science experts















Partners

Strategic Partner



Strategic Partner and Official Sponsor















Prizes





Three winners will be selected, each receiving the following:



Second Place 250,000 SAR





First Place 350,000 SAR





Third Place 150,000 SAR

Fourth Place 50,000 SAR















Prizes





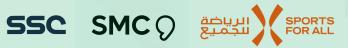


















Challenge statistics





At the solutions stage of the challenge, we received:

643

Ideas

238

Presented Solutions

1145

Participants















Final Evaluation





During the application period

Support was provided to those interested in the challenge and innovative entrepreneurs to develop the provided solutions and prototypes to be delivered before the registration closes At this stage, more than --- counseling hours were provided to more than ... applicants.



A meeting was held to learn about the importance of artificial intelligence applications and pioneering opportunities in the sports sector, in Thakaa's meeting with its strategic partners.



In this event, some examples of artificial intelligence applications compatible with the challenge paths, and appropriate data extraction methods were shared with a file of useful links for applicants.











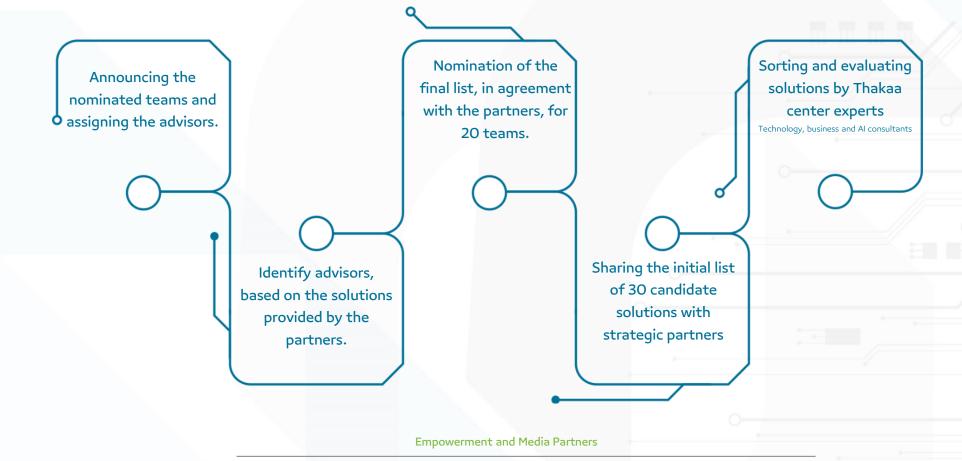




Evaluation of teams nominated for the first phase of support







أكاديمية مـــهـــد











Evaluating the first stage of supported nominees





Evaluation Criteria

Category	Category Weight	Criteria	the main points	question weight.
	50%	Artificial intelligence technology used and the amount of technical progress in it.	The percentage of using artificial intelligence techniques in the project	10%
Employing artificial intelligence			The quality of the data used and the plan to increase it	10%
			The quality of the performance indicators of the model, the way they are presented, and the plan to improve them	10%
			The degree of building the prototype of the idea	10%
		other technical aspects	The degree to which technology is employed in a new and appropriate way to solve an existing problem or improve the current situation	10%
	50%	Effect size	The size of the added value and the degree of success of the proposed solution in addressing the problem	10%
Economic impact, expected growth and operational capacity		scalability	The possibility of expanding the facility after launching the product and entering other sectors or markets	10%
			The level of innovation in the solution	10%
		Execution plan readiness	The quality of the implementation plan and the good team qualifications that enable it to continue to work on the idea	10%
			Quality of the proposed execution model and revenue plan	10%







































20 nominated teams

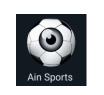


























































20 nominated teams

Team's Name	Presented Solution			
TeamUp لحالات المالية تيم المالية تيم المالية تيم المالية الم	A sports application to discover emerging talents in football by measuring their performance in sports exercises and tournaments using data science algorithms and artificial intelligence, and then linking them to professional clubs			
Auto meet AUT&	A technical solution supported by artificial intelligence, to automate sports summaries' montage by identifying the most prominent shots such as goals and attacks and extracting them with less effort and time.			
Smart Sheos	A sports smart shoe that uses sensors to measure specific vital signs of players to determine the condition and pressure of the foot and activates notifications to predict and avoid physical and health problems for athletes			
Ain Sports Ain Sports	A platform that uses artificial intelligence and deep learning based on big data to extract and generate automatic summaries of the most important moments and events in football matches			
Insaiful insaifu	A platform that uses artificial intelligence to measure the opinion of the Saudi public towards football clubs by analyzing social networking data directly and immediately			
Mercato Al	A special dashboard for each gym powered by artificial intelligence; To improve marketing and enhance the mass attendance of each club by predicting and knowing the number of different segments of the fans according to the match data, targeting them according to their behavior and analyzing their feelings			
Avocado Team	An automated personal trainer on the smartphone that corrects mistakes during exercises, corrects mistakes by providing audible instructions, and tracks the trainee's development during his activity			
iPadel PAD	A platform that uses artificial intelligence techniques (computer vision and machine learning) to add competitive value to the alternative player and create a better experience by covering and analyzing player data automatically			
Spot Lead	An application that uses augmented reality technology to make fitness exercises fun and turn it into an interactive game with the digital world			
Voxel 3D Vox	A smart splint for fractures and injuries designed and manufactured with 3D printing technology supported by a wireless chip that enables medical staff to monitor the situation remotely			



















20 nominated teams

Team's Name		Presented Solution					
ERTIKAZ	ارتكاز ERTIKAZ	A platform that uses artificial intelligence to evaluate and compare football players to help customers discover talent and attract players.					
ePadel	ePadel	A smart system that transforms the traditional Padel sport into an interactive sport by taking advantage of artificial intelligence and computer vision to activate gamification and create an exceptional experience through challenges and statistics that motivate players and develop their level.					
Excercise	تمرح	An application powered by artificial intelligence that aims to support the sports community and provide services to every sports association at its various levels to discover new talents.					
Talentmine	Talentmine	A platform that exploits machine learning and anthropometric data analysis to identify a user's talent and suggest the most suitable sports with path guidance and a special interface for talent scouts.					
Sima سمة	<u>څه.</u>	Analyzing the data of players in sports academies and clubs to discover and develop talents through practical exercises to improve the level, while linking these academies with emerging talents according to SIMAH assessment.					
FitLife	FITLIFE	An application that provides health and sports services fed with a database designed by specialists in the field of nutrition and sports and designed to follow the performance of athletes and provide nutritional tables and resistance exercise tables according to preference using artificial intelligence and machine learning.					
Handy Coach		A smart mirror that performs the tasks of a sports coach by analyzing and measuring the performance of athletes, monitoring their performance during exercise and directing them to improve performance					
Archeryالرماية	Archery Al Coach	A robotic trainer uses computer vision technology to help novice shooters learn the correct technique and give them directions for archery.					
Smart Mirror		Converting traditional mirrors in the gyms into smart mirrors that have the ability to track the athlete's performance, detect errors, view exercise details and send them to the mobile app					
Seed	نذرة	A social application that enhances community sports by linking the user's sports performance to a virtual farm and AI techniques Empowerment and Media Partners					



















From 11 to 27 of September

Throughout this stage:

- Teams were invited and added to Slack channel
- Programs and workshops have been conducted to support the nominated teams
- Assign mentors and start a live supporting period for each team
- Reservations are made available with partner advisors
- The video of the 20 nominated teams has been published with the audience voting link
- Preliminary evaluation has been prepared on September 27 to nominate 12 teams of the 20 nominees





















Thakaa Camp: A series of programs to support candidates in the sports' AI challenge has been introduced.

Program speaker	Program Name	
Senior Business Development Consultant/ Gali Miyajan	First Day : Building a business model and studying the market	
Senior Artificial Intelligence Consultant/ Abdullah Al-Abdullatif Data Scientist/ Hassan Al Sawadi	Second Day : the basics of developing artificial intelligence elements in solutions	
Programs Director/ Fatima Julidan	Third Day : In front of the judges presentation preparations	
Senior Business Development Consultant/ Gali Miyajan	Fourth Day : Sports Market	



















Reservations with partners' consultancies were made available

Partner	Provided Support Type	Consultant Name
Saudi Data & Al Authority - SADIA	Expert in artificial intelligence	Faisal Al-Issa
Saudi Data & Al Authority - SADIA	Expert in artificial intelligence	Abdulaziz Albuainain
Saudi German Hospital	General technical support	Aya Jamal Ahmed Ibrahim
Sports for all	General business, development, and idea improvement support	Abdulaziz Al Muqairn
Thakaa community member	Explore data sources, develop and improve idea, develop technical prototype	Ashwaq Alharqan
Thakaa community member	Overall business, business model development and revenue support	Ali Alghadeer
Thakaa community member	General technical support	Mohamed Omar Baz















SDAIA الهيئة السعودية للبيانات والذكاء الاصطناعي Saudi Data & Al Authority



Reservations with partners' consultancies were made available



Faisal Al-Issa



Mohamed Baz



Abdulaziz Almuqairn



Aya Jamal Ibrahim



Abdulaziz Al Buainain



Neel Rajani



Mohamed Hadraoui



Ali Alghareeb



















A preliminary arbitration meeting was held with a jury in cooperation with the partners.



Mr. Ibrahim Al-Moagel Decision-Making Department directer at the sport's ministry



Mr. Mohamed Hadhrawi Innovation & Technology directer at Mahd Academy



Dr. Abdulaziz Al-Bhilal Data & Al consultant at SDAIA









































Nominating and awarding the 20 qualified teams





October the 10th Prince Faisal bin Fahd Stadium

Al-Hilal vs Al-Shabab

Pre-game awardings









































Nominating and awarding the 20 qualified teams

























Final Evaluation

Agenda

2:15 - 2:00 2:30 - 2:15 3:45 - 3:30 4:45 - 3:45 5:00 3:30 - 2:30 5:00 - 4:45 **Greeting the guests** Introductory challenge **Contact and Summery** Nominees final presentation **Winners Announcements** Nominees final presentation Break presentation (Appetizers) Second six teams First six teams Introducing the sport's Al challenge, and the partners. **Empowerment and Media Partners**



















Final Evaluation

The Jury:



Mr. Bassem Al-Mohammadi, Chief Operating Officer, Raz **Holding Group**



Mr. Nayef Al-Dosari Advisor to the Strategic Planning and Investment **Deputy**



Dr. Abdulrahman Al Habib Assistant Chief Executive Officer for Capabilities Building at the National Center for Artificial Intelligence in **SDAIA**



Mr. Hashem Daghestani Vice President of Mahd Academy



Prince Saud bin Abdulaziz Al Saud President of the Saudi Maneuvering Football Federation



















Final Evaluation Honoring the partners



Hashem Daghestani Vice President of Mahd Academy



Mishari Alsagaar Assistant Executive Director of the Saudi Professional League



Abdullah Al-Qahtani Production Manager at Saudi Sports Company SSC



Moataq Al Shahrani Group Chief External Officer and Assistant to the Chairman Saudi German Mealtont and Media Partners



Firas Al Hoshan Chief vibes officer SMC















Challenge Second & Final Phase



Final Evaluation

Honoring the judges

From the partners







From experts in the sports sector and investors

















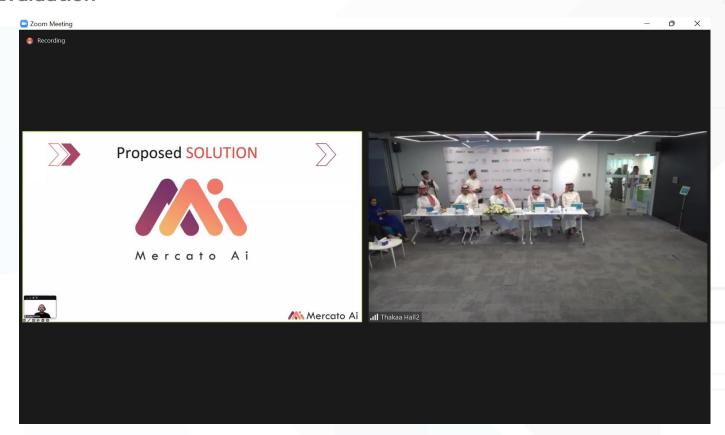


Challenge Second & Final Phase





Final Evaluation



Part of the private live broadcast

In the sport's artificial intelligence

challenge



















#تحدى_الذكاء_الاصطناعي_في_الرياضة22

















Sport's Artificial Intelligence Challenge





Winners announcement

Thursday, October 27th



Waeid event

Attended and honored by:



His Excellency

Deputy Governor for the Entrepreneurship Sector at the General Authority for Small and Medium Enterprises "Monsha'at"

Mr. Saud Al-Sabhan



His Excellency

Deputy Minister of Sports

Professor Bader Al-kadi















Sport's Artificial Intelligence Challenge Jury winning teams



























Sport's Artificial Intelligence Challenge Audience vote winning team





















Sport's Artificial Intelligence Challenge

Award ceremony excerpt































Sport's Artificial Intelligence Challenge

Award ceremony excerpt



























#تحدى_الذكاء_الاصطناعي_في_الرياضة22



















During the registration period

Special motion graphics to introduce the challenge and the media

Marketing statistics during the launch phase



Views

+144.8K



+15.5K



Clicks & visits





Impressions

993.6K+

*The figures are approximate and may change according to the time of observation











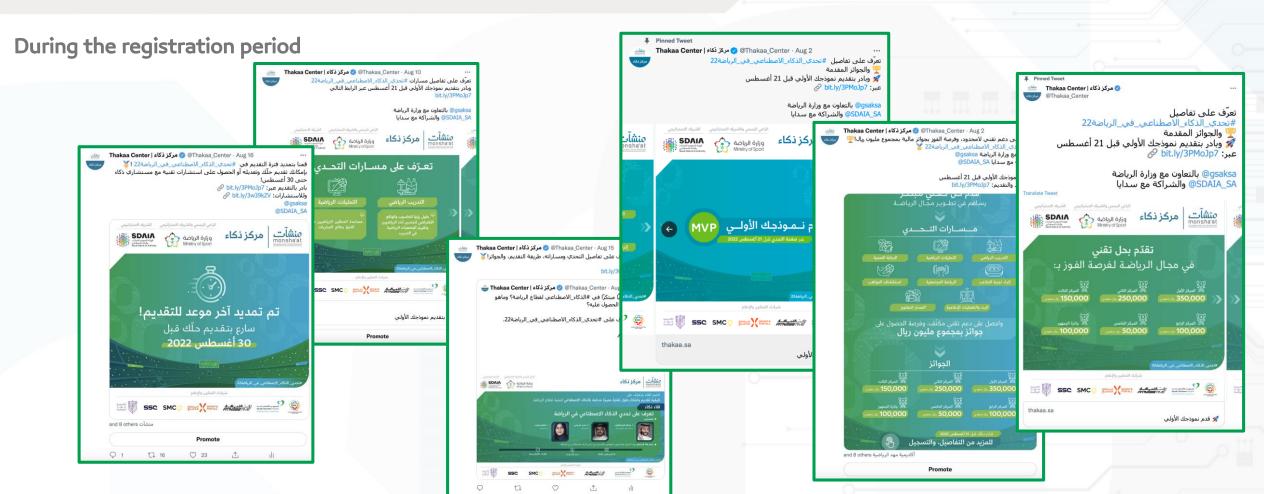






























بعد الأجواء التنافسية والتي انتهت بترشيح 20 حل تقني

#تحدي_الذكاء_الاصطناعي_في_الرياضة22 بالتعاون مع

ندعوكم للتصويت للحل التقني الأكثر تميّزًا للفوز بجائزة

@gsaksa والشراكة مع @gsaksa

الجمهور البالغة 100,000 ريال سعودي.

الفرق المرشحة في تحدي الذكاء الاصطناعي في الرياضة

للمرحلة الثانية من

صوّت الآن!

During the first support period

An introductory motion graphic for the 20 nominated teams in the first support phase, with a link to the audience's vote

The voting video statistics



Views

+74.5K



interaction

+15K



Impressions

+479K

*الأرقام تقريبية قد تتغير بحسب وقت الرصد



Thakaa Center | مركز ذكاء @Thakaa Center جواء التنافسية والتي انتهت بترشيح 20 حل تقني الذكاء_الأصطناعي_في_الرياضة22 بالتعاون مع @ والشراكة مع SDAIA_SA@، للتصويت للحل التقني الأكثر تميزًا للفوز بجائزة البالغة 100,000 ريال سعودي.

bit.ly/3BHVbEw منشآت مرکز ذکاء تحدي الذكاء الاصطناعي في ا رياضة 5:24 74.3K views

7 مرکز ذکاء | Thakaa Center

@Thakaa_Center

امسح الكود للتصويت

الفرق المرشحة في تحدى الذكاء الاصطناعي في الرياضة

bit.ly/3Bl



















Challenge First phase

Honoring the first judges



























Challenge Final phase

Final Judging

























Challenge Final phase

Final Judging























Challenge Final phase

Final Judging

Event Full cover video





بأجواء يملؤها الحماس، اختتمنا خلال الأيام الماضية المرُحلة النَّهائية من التحكيم في #تحدي_الذكاء الاصطناعي في الرياضة22، بالرعاية والشراكة مع gsaksa@ والشراكة مع ŠDAIA_SA. ترقّبوا إعلان نتائج الفائزين بالتحدّي قريبًا ! 🦮

Translate Tweet





















During the final phase

Winners' video





















During the final phase

Winner's announcing & honoring



Thakaa Center | مرکز ذکاء 🎻 مرکز دیاء يسرّ #مركز_ذكاء الإعلان عن الفائزين في #تحدي_الذكاء_الاصطناعي_في_الرياضة22 بالتعاون مع @gsaksa والشراكة مع SDAIA_SA"، كما نتقدّم بالشكر والتقدير للفائزين على طموحهم العالي ومثابرتهم المستمرّة طوال فترة التحدّي، متمنّين لهم مستقبلًا واعدًا وابتكارًا دائمًا. **Translate Tweet** الراعي الرسمي والشريك الاستراتيجي monsha'at مركز ذكاء نبارك للفرق الفائزة في #تحدى_الذكاء_الاصطناعي_في_الرياضة22 SSC SMC DESTINE















والذكاء الاصطناعي







Views

+250K



Total

interaction +41.2K



Clicks & visits

+8K



Impressions

1.5M+



Videos

5

*The figures are approximate and may change according to the time of observation



Posts

+55



















THANK YOU