CELEBRATING UAE NATIONAL DAY WITH AI

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AIMI
ARTIFICIAL INTELLIGENCE MANAGEMENT INSTITUTE

NOOR AI
Monthly Newsletter
Decemeber 2024 Edition

adsm
كـلـيـة أبـوظـبـي لـلإدارة
ABU DHABI SCHOOL OF MANAGEMENT

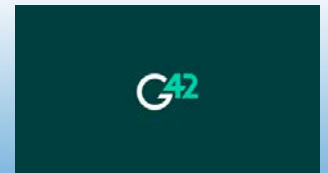## 5 AI UAE initiatives you should know

What's on in this edtion

First Nation with
a Minister of AI

UAE AI Strategy
2031

AI Models: JAIS and
Falcons.ai

AI in
Space Exploration

G42: The AI Powerhouse

UNITED ARAB EMIRATES
MINISTER OF STATE FOR ARTIFICIAL INTELLIGENCE,
DIGITAL ECONOMY & REMOTE WORK APPLICATIONS OFFICE

FALCONS.AI

G42

وكالة الإمارات للفضاء
UAE SPACE AGENCY

جيس JAIS

Celebrating AI initiatives in the UAE

UAE AI Strategy 2031: Launched in 2017, this strategy aims to integrate AI across various sectors, including healthcare, education, and transportation, to enhance government performance and create new economic opportunities.

National Program for Artificial Intelligence (BRAIN): This program outlines various initiatives, collaborations, and partnerships in AI, including the introduction of the first Bachelor's degree in AI in the UAE

G42: An Abu Dhabi-based AI and cloud computing company, G42 focuses on AI research and development across sectors like healthcare, finance, and energy. In 2024, Microsoft announced a $1.5 billion investment in G42 to enhance AI and digital infrastructure in the region.

AI Lab by e& UAE and Open Innovation AI: Launched in November 2024, this lab aims to develop tailored AI solutions for the UAE market, accelerating the nation's AI capabilities and supporting its vision of becoming a global AI leader by 2031.

Falcon AI Model: Developed by the Technology Innovation Institute (TII) in Abu Dhabi, Falcon is an open-source large language model recognized for its performance and accessibility

Microsoft-UAE Power Deal: A Key to AI Supremacy
Microsoft's strategic partnership with the UAE, featuring a power deal centered around AI, places the nation at the forefront of global AI innovation. This collaboration aims to leverage the UAE's advanced digital infrastructure and Microsoft's expertise to accelerate AI research and applications. With investments in Abu Dhabi's G42 and local AI projects, the deal positions the UAE as a critical player in the United States' strategy for global AI leadership.

Mohamed bin Zayed University of Artificial Intelligence (MBZUAI): Established in 2019, MBZUAI is the world's first graduate-level, research-based AI university, offering specialized programs in machine learning, computer vision, and natural language processing

JAIS Language Model: A collaboration between MBZUAI, G42, and Inception, JAIS is an open-source large language model trained on both English and Arabic data, aiming to address the lack of Arabic content on the web

AI Q&A

How is the UAE National Archives currently leveraging AI in preserving historical documents and artifacts?

"The National Library and Archives (NLA) of the United Arab Emirates is actively integrating artificial intelligence (AI) into its operations to enhance the management and accessibility of its extensive collections. The National Archives has begun leveraging AI to analyze metadata, automatically classify images, and retrieve content more quickly and accurately."

What role does AI play in identifying, classifying, and organizing rare documents or artifacts related to the UAE's heritage?

"The UAE's National Library and Archives (NLA) utilizes artificial intelligence (AI) to analyze and classify texts and images, enhancing the identification and organization of rare artifacts. enabling us to efficiently catalog and retrieve artifacts, ensuring that the nation's cultural heritage is preserved and accessible. For example, we employ AI to provide high-quality Optical Character Recognition (OCR), allowing researchers to search text within documents and access primary source materials related to the UAE"

> "AI-driven technologies foster deeper connections to our rich traditions while preserving them for future generations."
>
> **Saeed Rashed AlRashdi - Common Solutions Projects - Senior Specialist at the Department of Government Enablement (DGE)**

What role does AI play in digitizing the UAE's historical and cultural heritage?

"AI helps use transform physical documents and images into digital formats using AI technologies like Optical Character Recognition (OCR) allows for text extraction from scanned materials. This process converts content into searchable data, significantly improving access to information. This plays a key role in systematically digitizing vast amounts of content, enhancing its organization and management. It enables the transformation of documents and images into searchable digital formats, improving access to cultural heritage."

How can AI help preserve the authenticity and integrity of digital copies of historical documents?

"Artificial intelligence (AI) enhances the integrity of digital documents by employing digital fingerprints. These digital fingerprints generate unique identifiers for each document, allowing for the detection of any alterations. "

Can you share examples of AI technologies or tools that have been particularly impactful in transforming archival processes?

"Examples include Optical Character Recognition (OCR) for extracting text from handwritten documents and image recognition technologies for analyzing and organizing historical images."
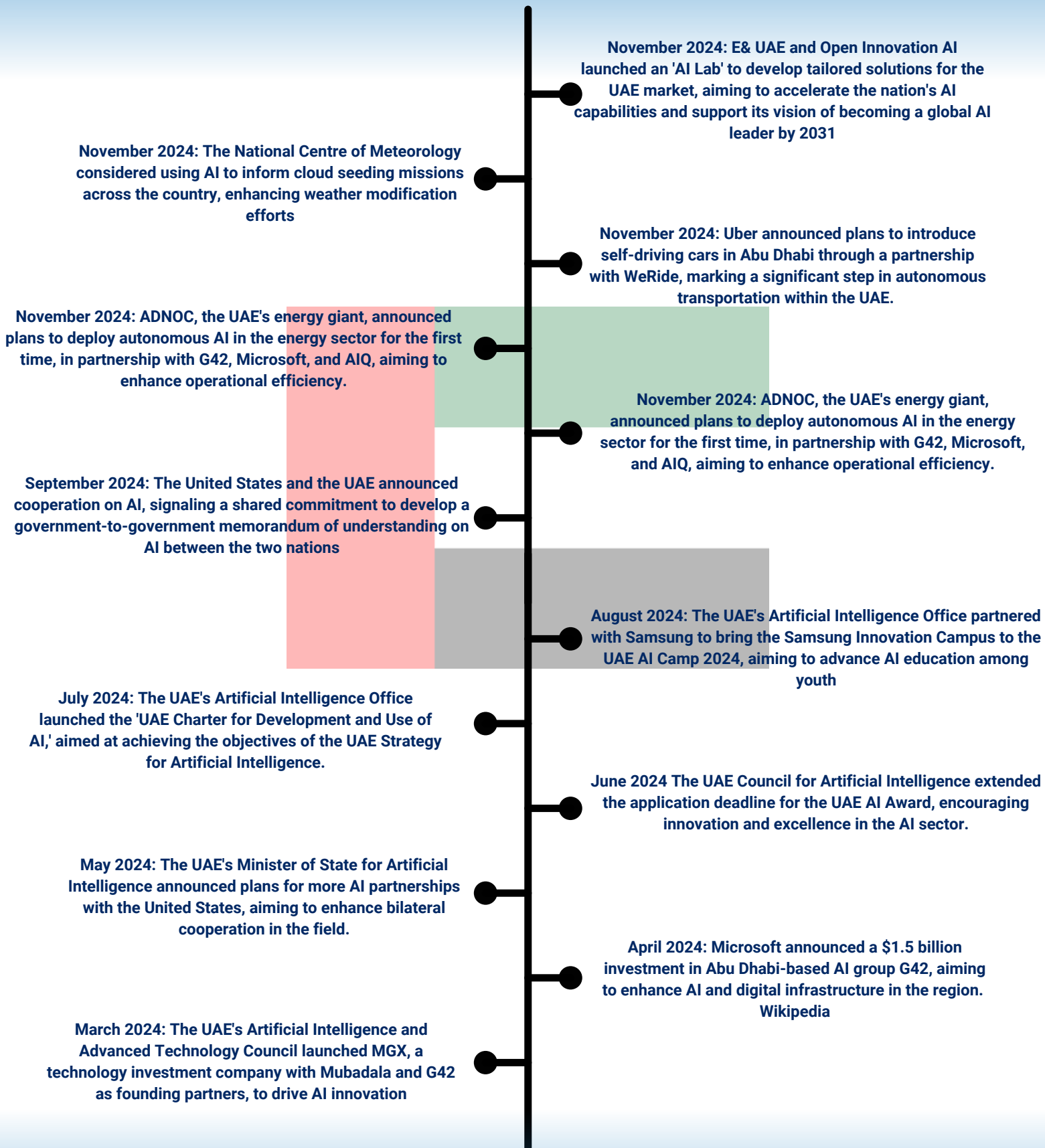
Do you believe AI can help foster a sense of nationalism by connecting citizens with the UAE's rich cultural and historical heritage? If so, how?

"Yes, I believe that artificial intelligence is instrumental in creating interactive experiences, such as augmented reality (AR) and virtual reality (VR) applications, that allow individuals to explore the United Arab Emirates' (UAE) heritage in innovative ways. These technologies offer immersive environments where users can engage with cultural and historical content, fostering a deeper connection to the nation's rich traditions.

The UAE has been proactive in integrating AI with AR and VR to preserve and promote its cultural heritage. For instance, the Museum of the Future in Dubai utilizes advanced technologies to provide visitors with futuristic experiences that reflect the nation's heritage and aspirations. The museum features exhibits that combine AI with AR and VR, allowing visitors to interact with simulations of historical artifacts and environments, thereby enhancing their understanding of the UAE's cultural narrative.

Additionally, the UAE's National Library and Archives (NLA) has embraced AI to enhance the preservation and accessibility of cultural heritage. By digitizing vast amounts of content and employing AI for analysis and classification, the NLA ensures that rare artifacts and documents are organized and accessible. This digital transformation facilitates interactive experiences where users can explore historical materials in a virtual setting, deepening their connection to the nation's heritage."

AI and the UAE in the media

November 2024: E& UAE and Open Innovation AI launched an 'AI Lab' to develop tailored solutions for the UAE market, aiming to accelerate the nation's AI capabilities and support its vision of becoming a global AI leader by 2031

November 2024: The National Centre of Meteorology considered using AI to inform cloud seeding missions across the country, enhancing weather modification efforts

November 2024: Uber announced plans to introduce self-driving cars in Abu Dhabi through a partnership with WeRide, marking a significant step in autonomous transportation within the UAE.

November 2024: ADNOC, the UAE's energy giant, announced plans to deploy autonomous AI in the energy sector for the first time, in partnership with G42, Microsoft, and AIQ, aiming to enhance operational efficiency.

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September 2024: The United States and the UAE announced cooperation on AI, signaling a shared commitment to develop a government-to-government memorandum of understanding on AI between the two nations

August 2024: The UAE's Artificial Intelligence Office partnered with Samsung to bring the Samsung Innovation Campus to the UAE AI Camp 2024, aiming to advance AI education among youth

July 2024: The UAE's Artificial Intelligence Office launched the 'UAE Charter for Development and Use of AI,' aimed at achieving the objectives of the UAE Strategy for Artificial Intelligence.

June 2024 The UAE Council for Artificial Intelligence extended the application deadline for the UAE AI Award, encouraging innovation and excellence in the AI sector.

May 2024: The UAE's Minister of State for Artificial Intelligence announced plans for more AI partnerships with the United States, aiming to enhance bilateral cooperation in the field.

April 2024: Microsoft announced a $1.5 billion investment in Abu Dhabi-based AI group G42, aiming to enhance AI and digital infrastructure in the region. Wikipedia

March 2024: The UAE's Artificial Intelligence and Advanced Technology Council launched MGX, a technology investment company with Mubadala and G42 as founding partners, to drive AI innovation

WHAT'S ON IN AI?

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CHECKOUT UPCOMING AI EVENTS

Integrating Blockchain and AI (Artificial Intelligence)
Dec 10th 2024 Dubai

Blockchain Smart Solutions

Learn & implement blockchain smartly

Blockchain & Artificial Intelligence

GEN AI AND THE UAE

Images celebrating UAE using AI

AI AT AIMI

SAAL.AI talks Dark Data

Dr. Abrar AbdulNabi, Director of Artificial Intelligence at Saal.ai, an innovative AI solutions company based in Abu Dhabi, was the featured guest speaker at a recent event hosted by the AI Management Institute at Abu Dhabi School of Management (ADSM). Dr. AbdulNabi shared her extensive expertise on the topic of "Dark Data," shedding light on its untapped potential and the critical role it plays in shaping modern AI strategies.

Her session provided a comprehensive overview of how organizations can uncover and harness dark data to drive informed decision-making, enhance operational efficiency, and maintain a competitive edge in an increasingly data-driven world. Dr. AbdulNabi's insights reflected the cutting-edge research and solutions developed by Saal.ai, a company at the forefront of AI innovation in the UAE.

This engaging talk was part of the AI Management Institute's mission to connect students and professionals with thought leaders in the AI domain, fostering a deeper understanding of AI's transformative impact on industries and society.

to learn more about saal visit https://saal.ai

AI AT AIMI

Learning how to learn

Speaker

Barbara Oakley

Creator of the
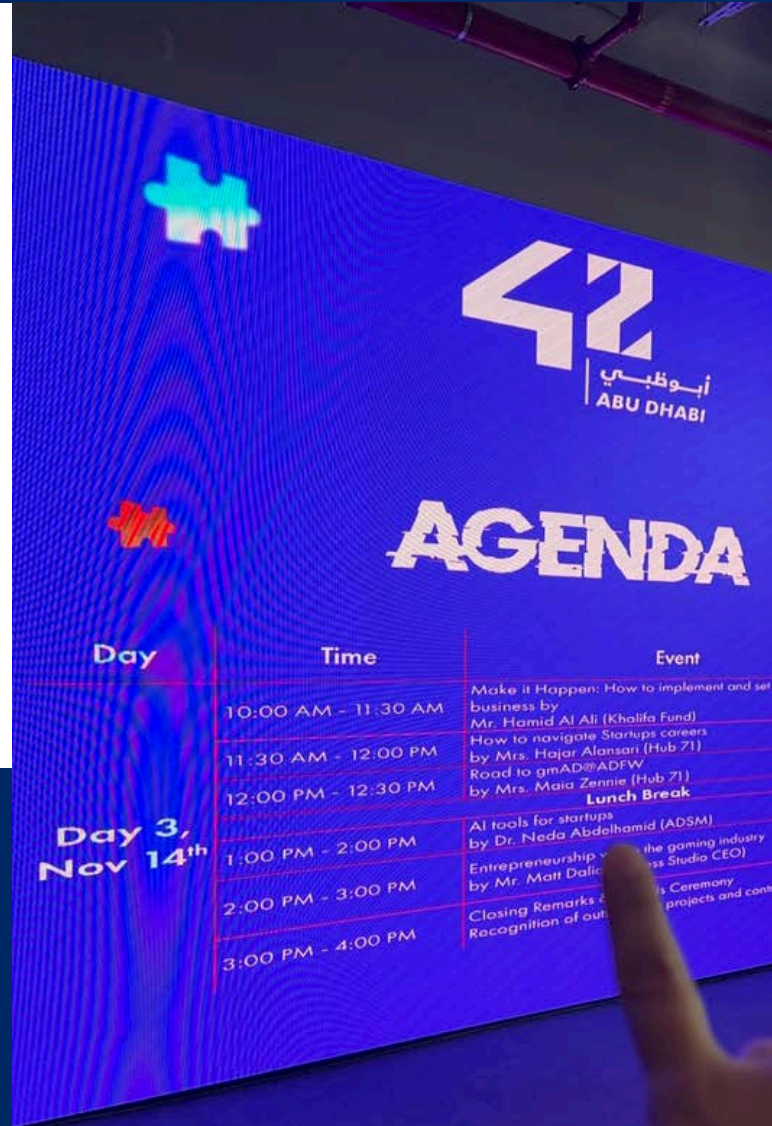World's Most Popular
Course on Coursera

ADSM hosted Dr. Barbara Oakley, a globally renowned expert in learning strategies, for an exclusive session titled "Learn How to Learn."

Dr Oakley is ranked as the #1 instructor on Coursera, with her flagship course taken by over 1.5 million learners worldwide. She is a distinguished educator, author, and advocate for innovative approaches to learning, making this session an invaluable opportunity to elevate your potential and refine your learning processes.

AI AT AIMI

Dr. Neda Abdelhamid, Program Chair and Associate Professor of Business Analytics at the Abu Dhabi School of Management (ADSM), was invited to deliver a thought-provoking presentation on "AI for Startups" during the 42AbuDhabi Entrepreneurship Week. Her session emphasized the power of AI in transforming startup journeys and provided practical demonstrations of tools tailored to meet entrepreneurial needs.

Dr. Neda introduced the audience to a variety of cutting-edge AI tools designed to address key challenges faced by startups, such as branding, market research, customer support, and social media management. These tools included Namelix for generating unique business names, Copy.ai for crafting compelling slogans, Looka and Canva for professional logo design, and Jasper.ai for creating engaging social media content.

Additionally, she highlighted website creation tools like Durable AI and Squarespace AI, as well as data analysis platforms such as Tableau.

By incorporating real-world examples, such as the concept of a pet beachwear business in the UAE, Dr. Neda showcased how startups can creatively utilize AI tools to develop product lines, enhance marketing strategies, and streamline business operations. Her presentation provided actionable insights, empowering aspiring entrepreneurs to leverage AI for efficiency, scalability, and innovation.

This engaging session reflected Dr. Neda's commitment to bridging the gap between cutting-edge AI solutions and entrepreneurial success, inspiring attendees to integrate AI into their own startup ventures.

AI TOOLS

Claude is an advanced AI language model developed by Anthropic, designed to understand and generate human-like text. Named after Claude Shannon, the father of information theory, the tool is engineered to assist users in creating, analyzing, and managing text-based content. It stands out for its focus on interpretability, safety, and user-aligned interactions, making it suitable for a wide range of applications across industries.

https://claude.ai

Claude tailored to cultural heritage and various use cases

Marketing Cultural Projects:
"Draft a social media post promoting a cultural festival with emphasis on [specific activities or heritage

For Educational Content Creation:
"Create a quiz with 10 questions about [cultural topic], suitable for high school students."

For Museum and Heritage Sites:
"Develop a conversational script for a virtual museum guide explaining the significance of [exhibit/artifact]."

For Digital Archiving:
"Create detailed metadata for the following historical document, including keywords, summary, and relevance to cultural studies."