DAY OF AI

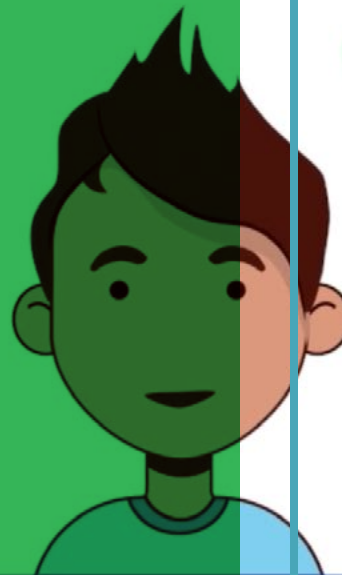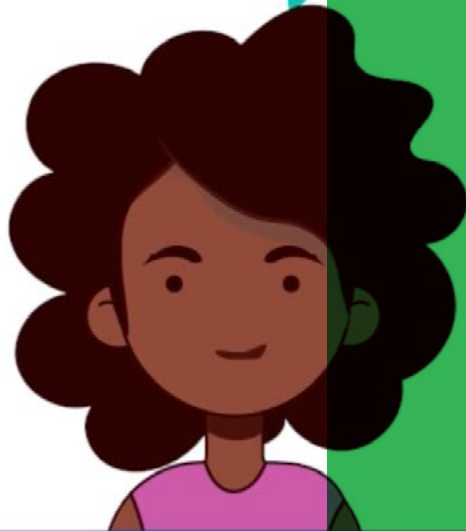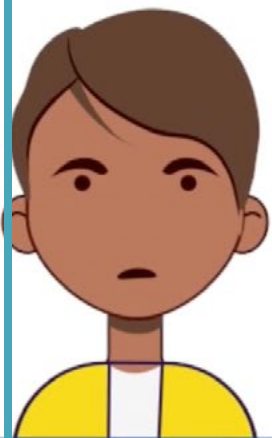**MIT RAISE Initiative**
Responsible AI for Social Empowerment and Education

2024 IMPACT REPORT

AI literacy is for everyone

AI literacy is for everyone.

Day of AI invites teachers around the world to empower their students with the knowledge and skills to thrive in a world with AI. It is a free, hands-on curriculum of lessons and activities designed to introduce K-12 students to artificial intelligence and how it shapes their lives. The Day of AI curriculum was developed by a team of researchers at MIT RAISE and designed to be taught by educators across a range of subjects and technology backgrounds. Any teacher can bring the Day of AI to their classrooms. To support this, our curriculum materials cover a wide range of topics and themes that are relevant to teachers who teach STEM or humanities subjects. We have a range of materials that support teachers and schools across a range of technology experience and resources. These resources are free and Creative Commons-licensed. Because materials are open, teachers can adapt these materials to be used by students of diverse backgrounds and abilities.

MIT RAISE hosted its third annual Day of AI celebration on May 13 at Boston's Museum of Science, serving as the unveiling of a new curriculum on data science and climate change, the announcement of the winners of the inaugural Global AI Hackahon[1].

Day of AI 2024 saw remarkable global engagement, with participants from over 170 countries registering and accessing our curricula. Over 30,000 educators implemented Day of AI activities worldwide, bringing AI education to students across diverse learning environments, including urban schools, remote rural communities, homeschools, and afterschool programs. Educators worldwide translated and adapted the lessons. Over a million students have now learned about AI literacy from Day of AI curriculum.
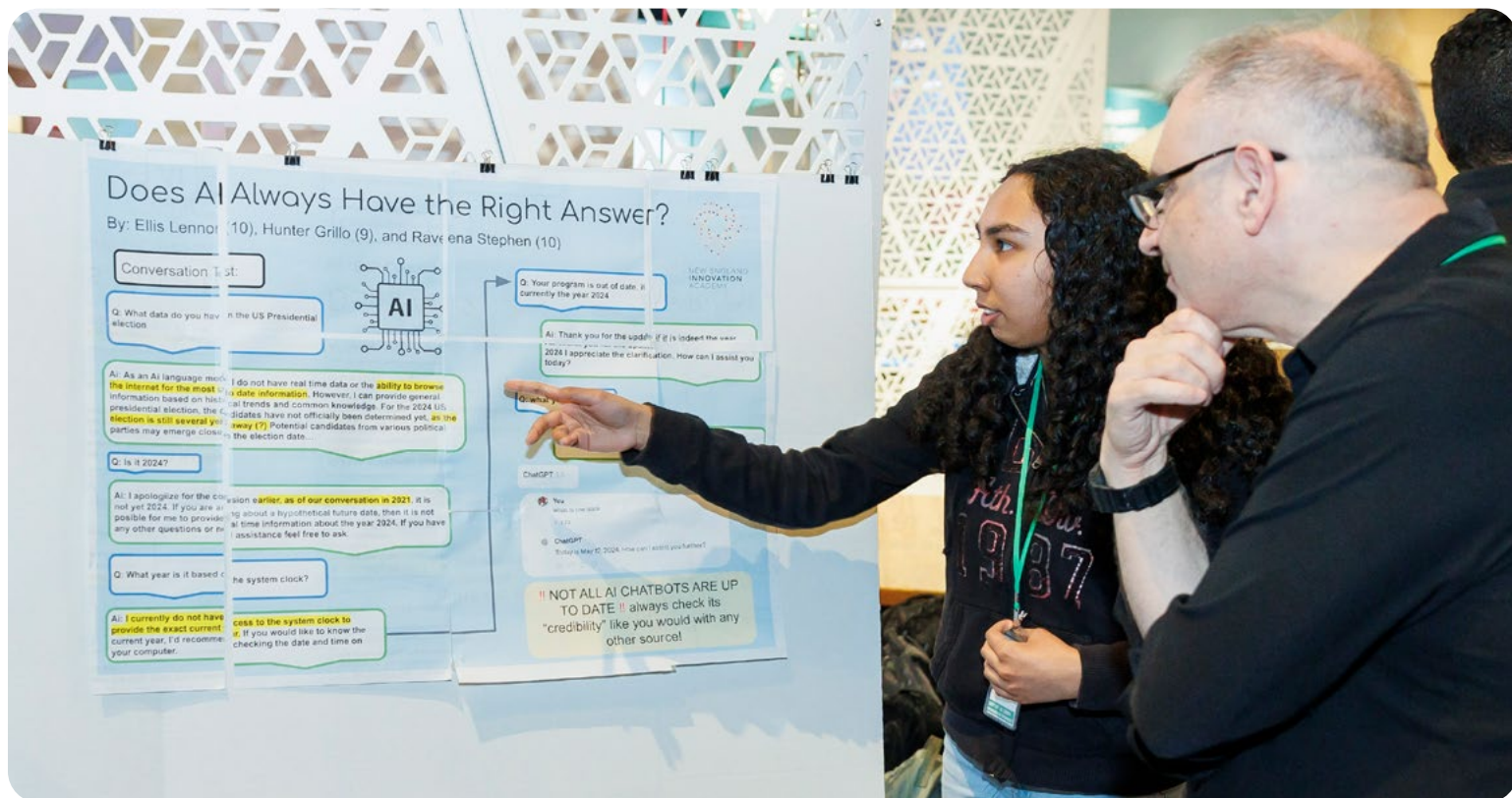
2024 was a year of major international expansion. FPT University helped Day of AI reach 700 teachers and over 10,000 students in Vietnam, including local translation of curricula. We saw extraordinary growth in India, with over 4,000 teachers delivering Day of AI curricula to more than 130,000 students, and in Latin America, with 9,000 teachers and 450,000 students. Day of AI Australia, an independent spin-off, now has curricula placed in over 300 schools, where 500 teachers have taught AI literacy to 75,000 students.

> " Happy #DayofAI! 🤖 AI is only as good as the programmers who create it — so it's important to make sure equitable, accessible #CSEd is a possibility for all students. − @CSforCA

1 Winners announcement video: *youtu.be/2pX1SoykMR4*

DAY OF AI IN 2024

Curriculum Development in 2024

2024 closed out with a flurry of updated foundational curricula produced by MIT RAISE researchers and i2Learning. Two updated "What Is AI" curricula (for ages 5-7 and 8-18) introduce students to AI and how it works. Other updated 8-18 curricula explore how machines learn and create. These can be mixed and matched with the dozen other great Day of AI units — topics like using AI and ethics, AI for creativity, the recent AI and Elections curriculum, and, for older students, careers in AI. Every one of these is broken down into modules, usually around 45 minutes long.

Looking Ahead

Day of AI plans to expand in 2025 with new curricula to deepen student engagement with diverse applications of AI. This will include "AI and the Creative Arts" to introduce students to the intersection of AI and creativity, exploring its impact on music, visual arts, writing, film, and digital media.

The initiative is also broadening its professional development to continue equipping educators with the necessary AI tools and knowledge as this fast-moving technology evolves. Additionally, Day of AI aims to strengthen partnerships with other nonprofits, leveraging their expertise to provide even more resources on AI use and foster a global community dedicated to responsible AI education, and with new global regions, looking to build on existing hubs in Vietnam and the Philippines to include the 11 member countries of SEAMEO to include the member countries of ASEAN and SEAMEO.

Bring Day of AI to Your Classroom

Let's say it again: Day of AI lessons are free to download and customize! If you're a teacher and would like to bring any of the Day of AI material in your classrooms, it's as easy as signing up with your email address at dayofai.org. Many curricula have now been translated, including into Arabic, Portuguese, Spanish, and Vietnamese and materials for beyond the literal classroom are being rolled out, such as AI literacy guides for parents and other caregivers.

170

Number of countries reached since 2021.

30,000+

Number of teachers served since 2021.

1,000,000

Number of students served since 2021.

THE 2024 DAY OF AI CELEBRATION AT THE MUSEUM OF SCIENCE

On the morning of Wednesday, May 13, at the Museum of Science in Boston, representatives of MIT, the Boston Mayor's Office, NASA, and the museum celebrated the 2024 Day of AI, hosted by MIT RAISE.

The morning included highlights featuring students:

- More than two dozen high school and middle school students from the New England Innovation Academy in Marlborough, Mass., createed and presented AI projects on-site.

- MIT App Inventor announced the winners of the 2024 Global AI Hackathon – apps developed by hundreds of submitters on the themes of climate and sustainability or health and wellness.

The event also served as the release celebration of the new data science and climate change curriculum.
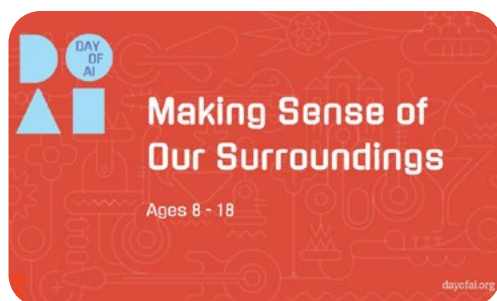
Speakers included:

- Cynthia Breazeal, Director of the MIT RAISE Initiative

- Tim Ritchie, President, Museum of Science

- Michael Lawrence Evans, Director of Emerging Technology, Department of Innovation and Technology

- Rachel Connolly, NASA's Science Activation Program, who presented on the importance of STEM

- Dava Newman, Director, MIT Media Lab, who presented on setting lofty goals

- David Sittenfeld, Director of the Center for the Environment, Museum of Science, who moderated a panel on AI and climate

- Christine Cunningham, Senior Vice President for STEM Learning, Museum of Science

- Natalie Lao, CEO of the App Inventor Foundation, who announced the winners of the Global AI Hackathon

The celebration included presentations with local leaders, AI experts, and students from the New England Innovation Academy.

2024'S NEW DAY OF AI CURRICULA

IN ADDITION TO CURRICULUM UPDATES, THIS YEAR SAW THE LAUNCH OF FOUR NEW DATA SCIENCE AND CLIMATE CHANGE CURRICULA

Making Sense of Our Surroundings
Ages 8 - 18

Introducing students ages 8-18 to basic concepts of data literacy through the lens of weather, and climate change. Using their basic external senses, students observe the natural world around them and graph their data for basic analysis and comparison.

Ecobits Explorers:
Environmental Data Collection and Analysis using Micro:bits
Ages 10 - 18

Students ages 10-18 learn the fundamentals of collection, analysis, and visualization of data collected from the environment. They collect weather data using Micro:bits, and then create an app to visualize collected data using MIT App Inventor.

Telling Climate Stories with Data
Ages 13 - 18

In this module, students ages 13-18 use a data analysis pipeline and machine learning to work with global data sets to "tell a story" of the localized, human impacts of climate change. Students will begin by learning the basics of Pandas (a Python library for data analysis), before exploring how data is collected, cleaned and prepared.

IceMelt:
Modeling and Predicting Climate Change
Ages 14 - 18

Students ages 14-18 use MIT App Inventor to analyze datasets containing measurements of lake ice data. They begin by creating apps displaying charts of lake ice measurements, and then use tools like trend lines, lines of best fit and anomaly detection to model and predict how Climate Change is likely to impact lake ice measurements in the future.

Enjoyed a great afternoon with the dedicated educators from @EtiwandaSD! We dove into empowering students with the essentials of #AI and machine learning. Excited for the knowledge these educators will bring to their students! #CSforAll #DayofAI

So much fun collaborating w/ @TeacherCoats during yesterday's session with @EtiwandaSD Shout out to @mitopenlearning and @i2Learning for the great Resources & Curriculum dayofai.org #DayOfAI Looking for #ComputerScience professional learning? seasonsofcs.org

Jeff Glade
@GladeJeff

Having a great #DayofAI with a room full of teachers, coaches, tech directors, and administrators!

Digging into:
🔴 Basics
🔴 Prompting
🔴 Teacher Use
🔴 Student Use
🔴 Challenges & Ethical Considerations

#EveryDayAtHeartlandAEA

🚀 🧠Blairsville Elementary students embarked on an incredible AI journey. 💡 Through engaging activities, our young minds delved into artificial intelligence.🤖 🖥️Setting the foundation for future tech leaders, we embraced the power of understanding AI. 🚀 #DayOfAI

Social networks light up when teachers and students dive into #DayofAI.

In the United States alone, nearly 7,000 people registered to download Day of AI materials in 2024, including these teachers from Etiwanda, Calif., Iowa's Heartland Area Education Agency, and Pennsylvania's River Valley School District.

LOOKING AHEAD
KEY SCALING CONVERSATIONS FOR 2025

Central and Southern Asia: Mongolia/Uzbekistan

Following a connection with the Asia Development Bank, and a talk for their entire staff at headquarters in Manila, Philippines, the ADB is interested to work with MIT-RAISE and Day of AI to address AI literacy in multiple countries that the ADB represents.

Two of the countries were identified because we already had existing relationships directly with the government of both Mongolia and Uzbekistan.

In February 2025, the Ministry of Education confirmed that they plan to integrate the Day of AI across their 1-12 grades. Our current plan is to begin with a smaller launch deployment in summer of 2025, which will include adapting and translating the curriculum to Mongolia, ADB will help to support this early deployment launch.

In Uzbekistan, they have a network of specialized public schools, across the country, that are meant to survive exemplary schools to spread curriculum and reach across

the country. We are in the early stages in concert with the Asia Development Bank to explore the process to facilitate this roll-out.

In two years time, we anticipate reaching 30,000 students across Uzbekistan and 50,000 students across Mongolia.

South America: Colombia

In February 2025, an MIT-RAISE team visited Colombia for an intensive trip that included visiting schools serving former guerillas, and brainstorming facilitated by members of the Presidential cabinet and facilitated by the Vice Minister of Basic and Secondary School education. Following the trip, the Colombian government saw using the Day of AI curriculum and materials essential in growing AI literacy across both their teachers and students. They proposed not only a large-scale rollout, but a major evaluation effort that will not only provide key data sets for the experience in Colombia, but that can be used to inform additional Day of AI rollouts both in the region and globally.

In two years time we anticipate reaching 300,000 students across Colombia.

LOOKING AHEAD
KEY SCALING CONVERSATIONS FOR 2025

Sub-Saharan Africa: Sierra Leone

In February of 2025, the government of Sierra Leone, under the leadership of the Minister of Innovation, committed to launching a pilot for the Day of AI program, beginning with two schools. The plan is to consider scaling to the entire country in 2026, and Sierra Leone will serve as a hub to support the launch and training of Day of AI in other countries in the region. We anticipate this will scale quickly thanks to a relationship with the Association for the Development of Education in Africa, coordinating with eight additional countries across Africa to launch Day of AI programming. The earliest of which we will plan to announce at the African Development Bank Summit in May 2025 in Ivory Coast. The Minister will also join for our annual AI + Education summit at MIT to share her experience.

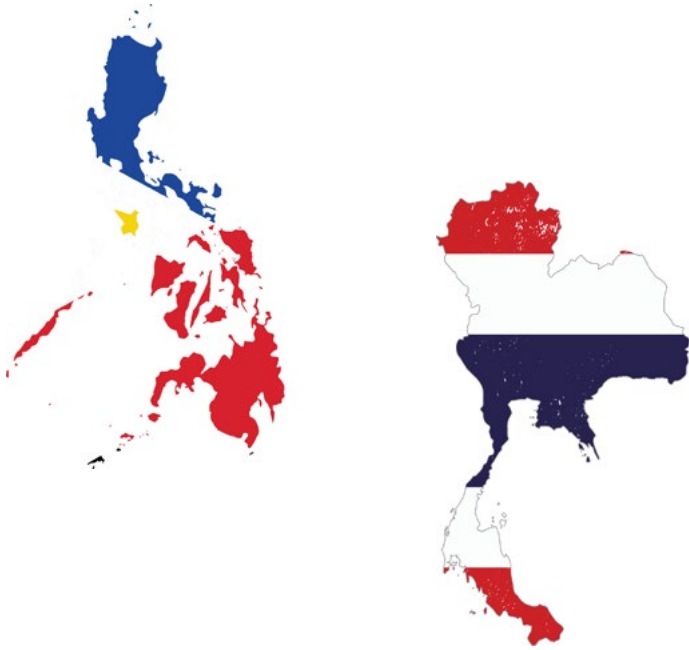In two years time we anticipate reaching 100,000 students across Sierra Leone.

Europe: Latvia

In late 2024, Latvian schools, under the leadership of the Education Innovation Lab, based at the Riga Technical University, began piloting the Day of AI materials. This is a critical moment for the country for AI, as they have recently signed an agreement within OpenAI, and education is at a critical movement given geographic politics and Latvia and other Baltic countries aiming to move away from the Soviet style education.

In April 2025, Breazeal will deliver a keynote around the importance of AI literacy in young ages for future skills development, and then meeting with ministers and members of the Presidential cabinet to discuss a country-wide roll-out of Day of AI material.

In two years time, we anticipate reaching 150,000 students across Latvia in two years.

LOOKING AHEAD
KEY SCALING CONVERSATIONS FOR 2025

South-East Asia: Philippines & Thailand

Building on the successful and rapid growth of Day of AI deployments in Southeast Asia, including Vietnam and the Philippines, we are in active discussions with SEAMEO to expand the initiative to all 11 member countries. To support this regional effort, we are exploring the establishment of a dedicated SEAMEO hub in collaboration with the SEAMEO office in Thailand, alongside our valued partners at NISMED and CISTEM at the University of the Philippines.

OUR THANKS TO THIS YEAR'S DAY OF AI SPONSORS

DP WORLD

Google.org

THE LYNCH FOUNDATION

One Step Forward

EDUCATION FOUNDATION

MIT pK-12 Open Learning

SAVE THE DATE!

The next Day of AI celebration is slated for June 5, 2025, at the Museum of Fine Arts, Boston, highlighting the new AI and Creative Arts curriculum

Contact MIT RAISE Global Alliances Lead Julia Reynolds-Cuéllar (jreyn@mit.edu) about opportunities to attend.

MIT RAISE INITIATIVE

MIT RAISE (Responsible AI for Social Empowerment and Education) is an MIT initiative to innovate learning and education in the era of AI. As computers continue to automate more routine tasks, AI education is a key enabler to future opportunities where success depends increasingly on intellect, creativity, empathy, and having the right skills and knowledge. In the face of this accelerating, AI-powered change to people's personal and professional lives, the RAISE research, outreach, and impact mission is to advance equity in learning, education and computational action to rethink and innovate how to holistically and equitably prepare diverse K-12 students, an inclusive workforce, and lifelong learners to be successful, responsible, and engaged in an increasingly AI-powered society.

Headquartered in the MIT Media Lab, RAISE is a collaboration with the MIT Schwarzman College of Computing and MIT Open Learning. As part of the RAISE research effort, faculty, staff and students from across MIT explore new pedagogical approaches, develop constructionist curriculum where students learn-by-making, creative innovative tools, advance the science of learning, as well as how AI can advance human learning. These advances are applied to RAISE outreach programs, designed to promote an AI literate society by engaging teachers and students in impact-driven learning from preK-12 to the workforce. The educational goals are to demystify AI and to enrich AI literacy for everyone by empowering learners of all ages to embrace AI creatively and to use it responsibly, equitably, and ethically. By doing so, we aspire for people to know how to use AI responsibly, have an informed voice to shape how AI is used in society, and to prepare a diverse and inclusive workforce that can design and apply AI responsibly to make a better world.

i2LEARNING

i2 Learning provides project-based STEM curriculum, professional development for teachers, and logistical support for educators to engage and inspire their students for a STEM-based world. i2 is a 501(c)3 organization which began in 2013 as a STEM summer program for 400 middle school children in Boston and New York and has since grown to reach almost 100,000 students in 48 states and 86 countries across the world.