

Intel® Digital Readiness Programs

Intel® Digital Readiness Programs empower the non-technical audiences with the appropriate skill sets, mindsets, toolsets, and opportunities to use technology impactfully and responsibly in the AI-fueled world.

Go to: AI for Youth | AI for Citizens | AI for Current Workforce | AI for Future Workforce | Digital Readiness for Leaders

Intel CEO Pat Gelsinger Addresses United Nations on Ending Digital Divide



Purpose

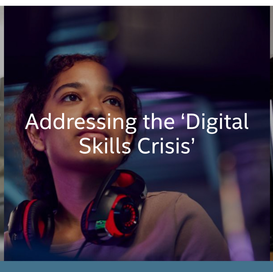
"Technology will play a critical role in building a digital future that is equitable, accessible, and inclusive for all."

- Pat Gelsinger, Intel CEO

Intel's corporate purpose is to create world-changing technology that enriches the lives of every person on Earth. Intel put the silicon in Silicon Valley, and today we are applying our reach, scale, and resources to deliver on bold goals. Technology is becoming increasingly central to every aspect of human existence, and semiconductors are its foundation. The digitization of everything was markedly accelerated by COVID-19 and has spurred innovation and new models of learning, work, business, and care. Disruptive Emerging Technologies such as Ubiquitous Computing, Pervasive Connectivity, AI, and Cloud to Edge Infrastructure are driving rapid digital transformation.

Show more







Intel® Digital Readiness Programs

Empowering Lives with Technology



AI for Youth
For high school students.



AI for Citizens
For general public.



AI for Current Workforce
For current workforce needing to upskill or reskill.



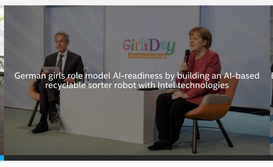
AI for Future Workforce
For students from employability education institutions.



Digital Readiness for Leaders
For government leaders and public sector officers.

Impact Stories





German girls role model AI-readiness by building an AI-based recyclable sorter robot with Intel technologies



Education Ministries worldwide scale AI for Youth in Public-Private Partnership mode



First AI associates degree in the U.S., by Maricopa Community College District in Arizona, powered by Intel

The Maricopa County Community College District (MCCCD), located in Arizona, has collaborated with Intel to launch the first two-year AI associate degree program in 2020. Intel provided content on the latest AI tech skills, such as machine learning, computer vision, natural language processing, and social skills, such as understanding AI ethics and biases. Intel trained the faculty and helped developed AI labs, and the colleges are implementing the curriculum. It will enable thousands of students, irrespective of their ethnicity or gender, to land careers in various jobs in diverse fields such as high tech, healthcare, automotive, industrial, and aerospace. Many of the students are currently in the workforce and have begun applying their learnings immediately. The graduating students are better equipped with new technical, social, and career growth skills, ready to enter the local workforce. In Maricopa county, over 40% growth is expected by 2030 in occupations that require AI skills. Learn more about the college degree here.

Go to Story →

Resources


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Intel RISE 2030 Strategy and Goals


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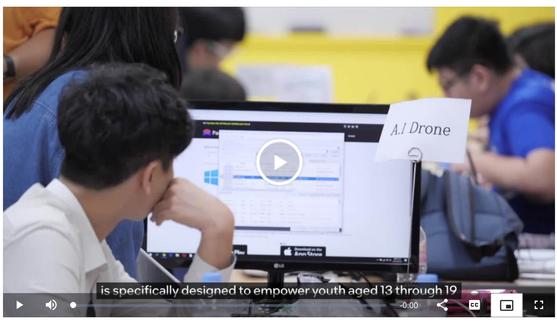
AI for Youth

Empower youth with AI tech and social skills in an inclusive way.



Go to: Digital Readiness Home | AI for Citizens | AI for Current Workforce | AI for Future Workforce | Digital Readiness for Leaders

Video for AI for Youth Program



Why AI for Youth?

Today's students are tomorrow's innovators. While the impact of Emerging Technologies like AI is undeniable, the degree to which it influences and prepares youth currently depends on a variety of factors such country, gender and age. Thus, even though AI is everywhere, the opportunity to benefit from it and shape it is not.

The next generation of innovators needs the right skills and resources to understand what AI is, how it is designed, and why it is important in today's digital world. Otherwise, the digital skills gap will only increase and further hurt economies and society. Moreover, many young people don't yet fully grasp the key role they can play in shaping AI. Hence, it is essential to demystify and democratize AI for the next generation of innovators in an inclusive way, irrespective of gender, ethnicity or location.

Providing them the opportunity to learn AI skills and apply them responsibly to design any solution is an important key to building long-term competitiveness.

Program Goals

- **Deep understanding of AI:** Demystify AI and equip youth with the skill sets and mindsets required for AI readiness.
- **Access and use of AI toolsets:** Democratize access to AI tools with Intel technologies and train youth to use them skillfully.
- **Create solutions with AI:** Meaningful social impact solutions as evidence of achievement.

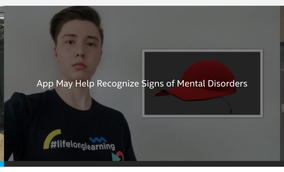
Audience | Program Design | Program Approach | Skills Gained

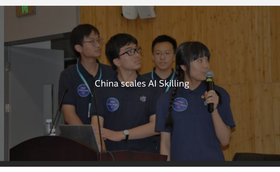
- General public with non-technical background that has digital access and want to know about AI. The program is not meant to replace any formal workforce preparation, education or skilling program.



Impact Stories









Story of Storganizer, Israel

Small fashion stores commonly struggle to organize the store shelves according to the latest fashion, color and types of clothes. After completing AI for Youth program in Israel, four young boys built a new computer vision-based app called Storganizer. The app sorts and arranges different clothes and items on the shelf according to the color and style. They first collected a database of images of clothing color and item types (e.g., T-shirts, shorts). Using Intel Python* libraries, they developed a model for training with almost 90% accuracy, tested the classification capabilities with a new clothing item, and built the AI-based user app. The user can send a picture of any clothing to the app, and the inbuilt model identifies the type and color of the garment and recommends an appropriate location for storage. This new store organizer app helps small stores organize clothes better and in the correct locations, thus increasing productivity, ease and profitability. The students want to use the AI technologies responsibly to help those stores that want to employ disabled workers, such as blind workers or workers with reduced mobility.

Testimonials

Shri Narendra Modi, Prime Minister of India
Government of India

"We launched Responsible AI for Youth program this year. Under this programme, thousands of students from schools have completed the basic course. They are now building their AI projects."

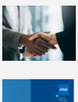
Jadwiga Emilewicz, Former Deputy Prime Minister of Poland
Government of Poland

"We want young people participating today in projects such as AI for Youth, to become creators of solutions that will have an impact on society, because artificial intelligence will certainly have a profound impact on the economy and the way you work with people, while releasing additional huge economic potential."

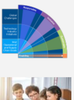
Jung, Ji-Seok, Student, Youth participant in S. Korea
Busan Computer Science High School, South Korea

"AI for Youth helped us to have different perspective for the world. There are so many problems and people need help. Now, we think of 'Others' when using technologies. We think how to benefit society with AI with skills we learned. That's the major change."

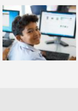
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AI for Citizens

Demystify AI for the public and community.



Go to: Digital Readiness Home | AI for Youth | AI for Current Workforce | AI for Future Workforce | Digital Readiness for Leaders

Why AI for Citizens?

Governments are creating comprehensive national AI strategies to develop a sustainable, inclusive and positive impact on their citizens, industries and overall societies. However, the AI skill gap is recognized as the most significant barrier for wider AI adoption. Public awareness and understanding of AI remain low. Public surveys often show that AI knowledge is based mainly on hype and speculations. For example, a recent UK survey shows that 37% of the public doesn't even fully understand the term AI. Hence, there is an urgent need to demystify and democratize AI through appropriate public awareness programs to foster a correct understanding of the benefits and limitations of AI.

Program Goals

- **AI Awareness:** Build an elementary understanding of AI and its potentials and pitfalls.
- **AI Appreciation:** Gain introductory knowledge of the common domains of AI and its related issues and start building personal learning plans.

Audience | Program Design | Program Approach | Skills Gained

- General public with non-technical background that has digital access and want to know about AI. The program is not meant to replace any formal workforce preparation, education or skilling program.



Impact Stories



Singapore Institute of Technical Education rolls out a national public AI awareness program

Singapore is a world leader in innovation with an ambitious 2030 vision to lead developing and deploying scalable, impactful AI solutions in key sectors of high value and relevance to its citizens and businesses. It recognizes the role of citizens to achieve that vision and seeks ways to create awareness and appreciation of AI among citizens. Hence, Singapore's Institute of Technical Education (ITE) has collaborated with Intel to roll out a nationwide public AI awareness. ITE is a government institution of higher learning and a principal provider of career and technical education that prepares Singapore for the future economy. As of June 21, 2021, more than 1,300 people have completed the learning.

Testimonials

Mona Cheah, Taman Jurong Active Aging Committee

Government of Singapore

"The program was simple enough for a non-techie like me to understand. I liked the practical examples of how AI is being used in the real world. This set the context for me. This program has helped demystify AI for me."

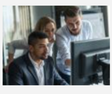
Khah Gek Low, Institute of Technical Education (ITE)

Government of Singapore

"AI for Citizens is a well-designed course with engaging and motivating features. I was captivated by the illustrations of AI in everyday life and industries as well as the principles to ensure responsible and proper use of AI. I am sure your experience with AI for Citizens will be fascinating and rewarding."

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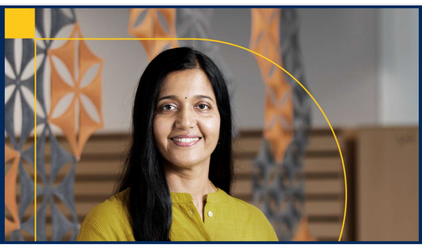

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AI for Current Workforce

Enable and augment existing workforce capacity with AI skills for work and life impact.



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Why AI for Current Workforce?

As per Gartner, 70% of the current workforce has yet to acquire the skills for their current jobs, and 80% of the current workforce doesn't have the skills for their current and future roles.

Click Here to Learn About AI for Workforce Program in the US →

Program Goals

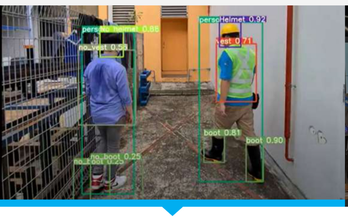
- **Gain AI technical confidence:** Demystify AI and equip the workforce with the technical confidence to learn and apply AI skills independently.
- **Prototype AI solutions:** Co-create AI solution prototypes using low / no-code tools.
- **Deliver business and life impact using AI:** Identify opportunities and define and develop AI projects that create business impact.

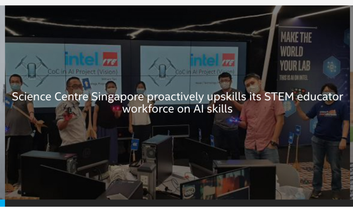
Audience | Program Design | Program Approach | Skills Gained

- Government-supported workforce.
- At-risk workforce needing to upskill, e.g., targeted audience like SME workforce.
- Displaced workforce needing to reskill, e.g., women or older workforce who lost employment.
- Incoming workforce needing to upskill, e.g., unemployed fresh graduates.



Impact Stories





Science Centre Singapore proactively upskills its STEM educator workforce on AI skills



Mother-daughter duo of Good family in U.S. study Artificial Intelligence together



QSS Safety Products (S) Pte Ltd, a leader in safety solutions in Asia, upskills employees on AI

QSS provides safety solutions for the workplace and household with a comprehensive range of protective equipment that conforms to major quality standards. Based in Singapore, QSS believes that everyone should put safety first in their lives, whether at work or home. QSS recognizes that AI technology can play a significant role in enhancing safety. Hence, it regularly upskills its employees through AI Certification of Competency (CoC) courses run by the Institute of Technical Education (ITE). ITE is a Singapore government vocational institution, a principal provider of career and technical education that prepares Singapore for the future economy. ITE has developed and rolled out AI CoCs for the workforce from public enterprises and small-to-medium enterprises (SMEs). They developed these courses after training by Intel in the AI for Current Workforce program. After undergoing the program, QSS employees with ITE students have done an innovative proof of concept project. The project uses a video camera that identifies personal protective equipment on workers through a Machine Deep Learning algorithm. They are upgrading their safety processes using Intel® Neural Compute Stick 2 and Intel® OpenVINO™ to gain more business productivity and operational efficiencies.

Testimonials

Ang Kok Heong

Singapore Science Centre

"This series of training is recommended for those with a keen interest in AI who want to learn beyond the introductory stages and experience the application of AI. Having gained increased awareness and knowledge on the field of AI through this course, I have subsequently developed resources for teachers."

Resources



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AI for Future Workforce

Empower future workforce with necessary AI skills for employability in the digital economy.



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Video for AI for Future Workforce Program



Why AI for Future Workforce?

AI skills are often called out as one of the most sought-after skills in the emerging job landscape in the digital economy. According to the World Economic Forum's Future of Jobs Report 2020, while 85 million jobs will be displaced by 2025, 97 million new jobs will appear. The top growing jobs are data analysts and scientists, AI and ML specialists, and big data specialists. The report also identified that AI jobs are not restricted to technical jobs. Rather, the demand cuts across industries and functions, such as digital marketing and strategy specialists, process automation specialists, and digital transformation specialists. As per Morning Consult's IBM Global AI Index 2021, limited AI expertise or knowledge is identified as the biggest barrier to AI adoption by 39% of business leaders. Building the necessary AI skills for enhanced employability through technical and vocational education late is critical to driving long-term competitiveness.

Click Here to Learn About AI for Workforce Program in the US →

Program Goals

- **Gain AI technical confidence:** Demystify AI and equip the future workforce with the technical confidence to learn and apply AI skills independently.
- **Enhance employability for AI-related jobs:** Build necessary technology, career growth and social skills on AI for jobs ahead.
- **Produce evidence for employment:** Demonstrate solutions through AI projects capturing industrial or social impacts.

Audience | Program Design | Program Approach | Skills Gained

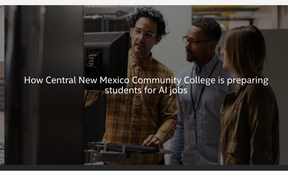
- Diverse students from employability education institutions, e.g., community colleges and vocational schools. Ages 16 and above.
- Prerequisite: No coding experience required; only foundational math and statistics skills.
- Not targeting developers or computer science university students.



Impact Stories









Poland takes the lead in reforming agriculture vocational schools with Intel

Poland is one of the biggest agricultural suppliers in the European Union, and hence it employs 12% of the country's workforce in the agricultural sector. Modern technologies such as advanced data analytics, weather predictions, autonomous vehicles and image recognition technologies are revolutionizing this sector. The country is skilling the future workforce to sustain growth. The Polish Ministry of Agriculture has collaborated with Intel to roll out the AI for Future Workforce program across its vocational agriculture schools. Intel and its implementation partner, Poznań Supercomputing and Networking Center (PSNC), have trained faculties with various use cases and technologies such as Computer Vision and low-code/no-code software. These faculties build their teaching and learning resources to increase student employability and fully embrace AI potential for smart farming. Michał Wiśniewski, deputy director of the National Agricultural Support Center in Poland, states: "Taking full advantage of Fourth Industrial Revolution in agriculture is a prerequisite for sustainable fulfillment of growing global demand for food and the economic success of countries, which economies rely on agriculture production. Therefore we have decided to partner with Intel to equip future farmers with digital skills needed for effective usage of cutting-edge technologies."

Testimonials

Sandra Watson, Arizona Commerce Authority President & CEO

Arizona Commerce Authority

"Arizona has become a hub for innovation and emerging technologies like Artificial Intelligence, and this initiative will enhance our state's competitiveness in the global market. Ensuring companies have access to talent with AI skills is key to Arizona's continued economic success. We're proud to partner with the Maricopa County Community College District and Intel to launch this new program."

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Digital Readiness for Leaders

Educate and empower government leaders on Emerging Technologies.



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Why Digital Readiness for Leaders?

The fast-changing world of digital disruption is powered by Emerging Technologies such as AI, 5G connectivity, cloud and intelligent edge. Governments feel pressure to drive national digital transformation to enhance citizen services and maintain competitiveness by appropriately designing and using technology solutions. However, any digital transformation first requires capacity building by public sector leaders. As per Gartner's report titled "Transition to Digital Government," 80% of public leaders say they are behind the private sector.

Program Goals

- **Demystify Emerging Technologies topics:** Including AI, cloud, 5G, intelligent edge, cybersecurity for the rapidly changing economic and technological landscape of the world.
- **Help government leaders bridge the current skills gap in Emerging Technologies:** With immersive experiences and guide national action plans to build competitiveness.

Audience | Program Design | Program Approach | Skills Gained

- Public sector or government leaders responsible for designing, developing and deploying Emerging Technologies-based solutions.



Impact Stories





Digital India Dialogues: Empowering public sector leaders on Emerging Technologies



Smart Africa Digital Academy: Demystifying technologies for African leaders, with Intel



Building AI solutions and action plans for Costa Rica

In the last two decades, Costa Rica has become the "tech epicenter of Central America" by investing hundreds of millions in digital technologies. Costa Rica's manufacturing leadership includes Intel's Assembly and Test Manufacturing facility, a Research and Development Center, and a Shared Services Center. The Costa Rican Investment Promotion Agency (CINDE) recognized the need for the skilling of government leadership on AI to drive growth across industries. CINDE collaborates with Intel for workshops for government leaders and partners from the Inter-American Development Bank (IADB). These workshops focus on developing AI solutions and action plans relevant to Costa Rica. The officials go through immersive AI sessions, learn from Intel technologists, hear best practices and interact with international experts. Post-workshop, officials have said that they valued the insights of Intel experts on measuring AI readiness and issues such as bias and data privacy in AI. These insights allowed them to set the foundation to discuss ensuring inclusive, positive impact from AI and maximizing the growth from AI for Costa Rica.

Testimonials

Shoko Noda, Resident Representative

UNDP India

"UNDP is happy to partner with Goverment of India and Intel in this very existing initiative. When I looked at the program, I felt that I should be also one of the participants to learn more about it. It is so important, so relevant, and even in the current context, current crisis this kind of initiatives really gives a hope for the future."

Abhishek Singh, President & CEO NeGD

Government of India

"Digital India dialogues series for emerging technologies has been launched by NeGD with support of Intel and UNDP. The objective is to demystify concepts, learn from best practices and adopt technologies in the projects that we are implementing. We look forward to collaboration with Intel."

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