



AI for Youth

Empowering Lives with Technology

Artificial Intelligence will be a catalyst of innovation and change in many industries. A recent McKinsey report states “AI has the potential to deliver additional global economic activity of around \$13 trillion by 2030.” *

Artificial Intelligence

as the catalyst of innovation

Today's students are tomorrow innovators, job seekers, and job creators. Hence, it is paramount to enable the youth with the capabilities of emerging technologies such as Artificial Intelligence (AI). Equipping the younger generation with the right toolsets to understand AI and its importance will help in bridging the digital skills gap. It will also add to the country's economic growth by both empowering the future workforce and creating new job opportunities.

Dell Technologies, in collaboration with Intel, is pleased to introduce a comprehensive AI readiness program – AI for Youth. We aim to empower the youth to be future-ready with the power of AI.

Deep understanding of AI



Access and use AI toolsets



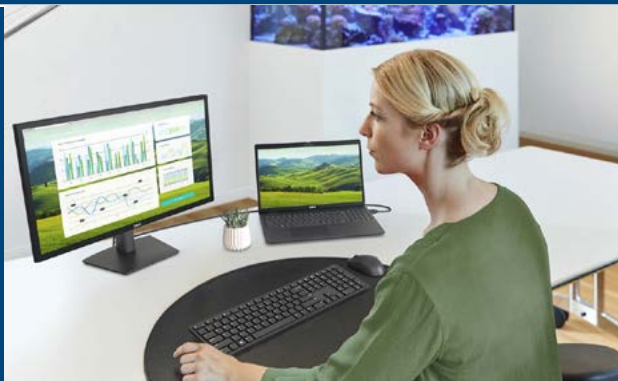
Create solutions with AI



AI has the potential to deliver additional global economic output of around

\$13 trillion
by 2030.

Source: McKinsey



Intel has helped us to develop AI pedagogy that's first of its kind that's helpful for the teachers and students to undergo. AI pedagogy will help teachers to think differently and enable their students to think more than them.

Dr. Biswajit Saha
Director, C.B.S.E.,
Ministry of Education (MoE),
Government of India



The AI for Youth initiative by Intel will help bridge the skill gap by leveraging impactful AI pedagogy enabling educators and students alike. Technology innovation and education is key to building the future workforce.

Indrajit Belgundi

Senior Director and General Manager,
Client Solutions Group, India,
Dell Technologies

Why AI for Youth?

A **170+** hour comprehensive program with hands-on training, covering 3 AI domains.



Computer Vision



Natural Language
Processing



Statistical Data

Additional training



Data Collection



Data Modelling



Data Visualization



Python Programming
Language



Developing AI
Edge Solution

Program Outcomes

Attain

Participants get an opportunity to develop **social impact projects** using the 3 AI domains

Accomplish

Shortlisted social impact projects will receive **Intel® Certificate of Accomplishment**

Achieve

Participants will be encouraged and oriented to apply for **patents**

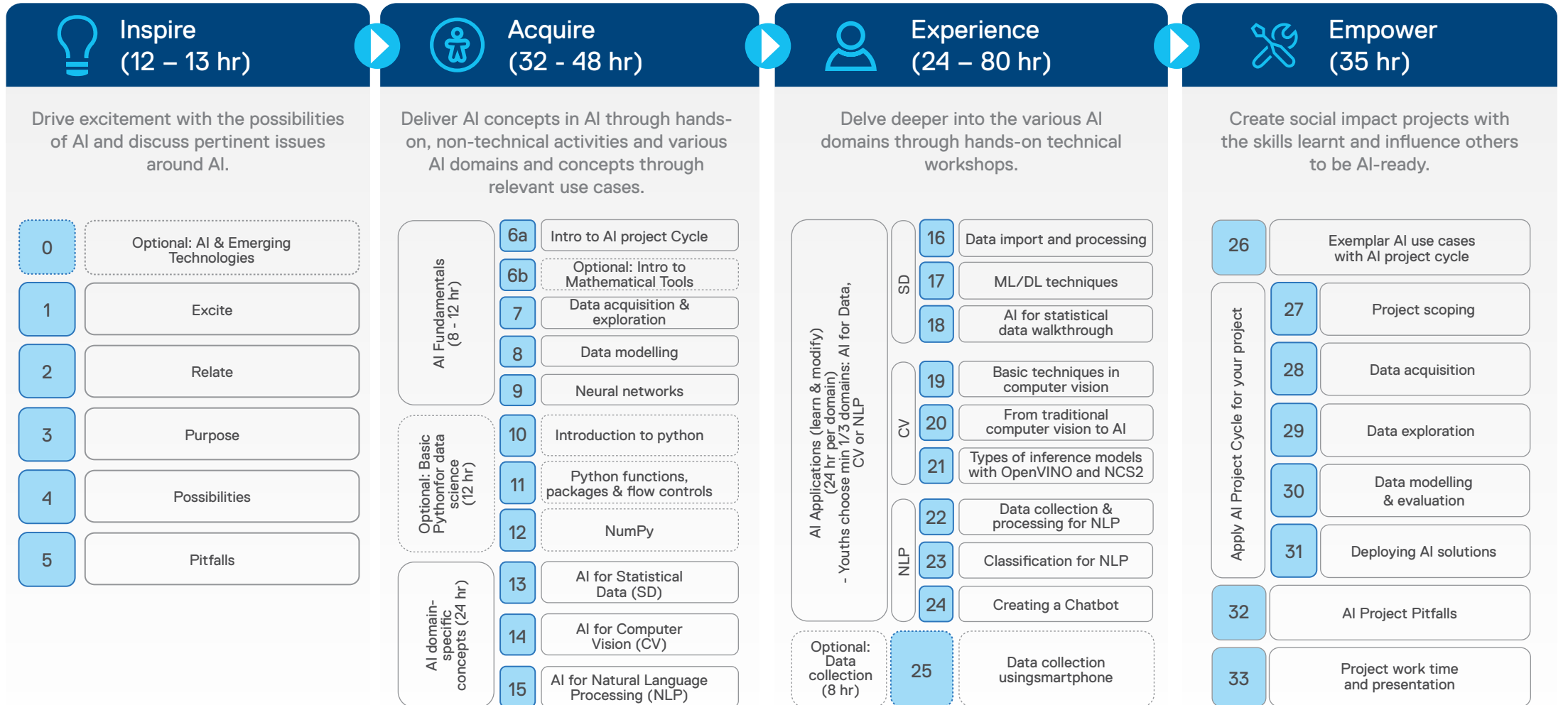
Actualize

Participating Institutes will have an opportunity to establish a **certified AI Skills Lab**

The Learning Journey

AI for Youth has a unique 4-stage learning journey to equip youths with the mindsets and skillsets for AI-readiness:

Module Summary



Skills Outcome Map



Inspire



Acquire



Experience



Empower

Tech Skills

Mathematics

- Statistics
- Linear algebra
- Probability

Programming & coding

- Python for data science

Data skills

- Learning AI process
- Data collection
- Data analysis
- Data visualisation
- Data pre-processing

AI domain specific skills

- AI for Statistical Data
- AI for Computer Vision
- AI for Natural Language Processing

Solution building

- System mapping
- Problem identification
- Project scoping
- Prototyping AI solution
- Social Impact Presentation

Social Skills

Awareness of AI ethics, inclusion, bias, privacy
Social perceptiveness, Critical thinking, Problem solving



Teamwork



Communication

Leadership

Organisational skill

Collaboration

Sharing tech in plain and simple language

Effective documentation

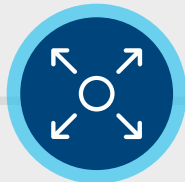
Persuasion

Key Steps for Program Implementation

170+ hours of artificial intelligence curriculum



Building capacities among teachers and educators nominated by institutions through training provided by Intel



The students will be trained by the teachers nominated by the institution and through bootcamps, AI-Thons, virtual showcases



Dell will setup the AI Skills lab empowering students to create social impact solutions



Creating and enabling AI ecosystem in campus



Building an AI Ready Campus



Provisional patents through AI for Youth

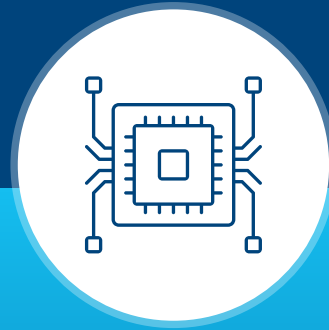


AI domain:
NLP

Twitter Postman

Soham Shashank Munnagi
Meridian School for Boys & Girls,
Hyderabad

An AI model that identifies local problems and their solutions posted as tweets and sends them to the desired government departments for relevant actions.



AI domain:
Data Science

Eco Volt

Shubhaankar Gupta
DPS R.K. Puram, Delhi

An AI-based model to monitor the electricity usage of a household to reduce consumption.



AI domain:
Computer Vision

Visual Assistant for Blind

Ashwin JB
Excel Public School, Mysore

A walking stick equipped with a camera to aid blind people in their day-to-day activities.



AI domain:
Computer Vision & NLP

AI Autism Assistant

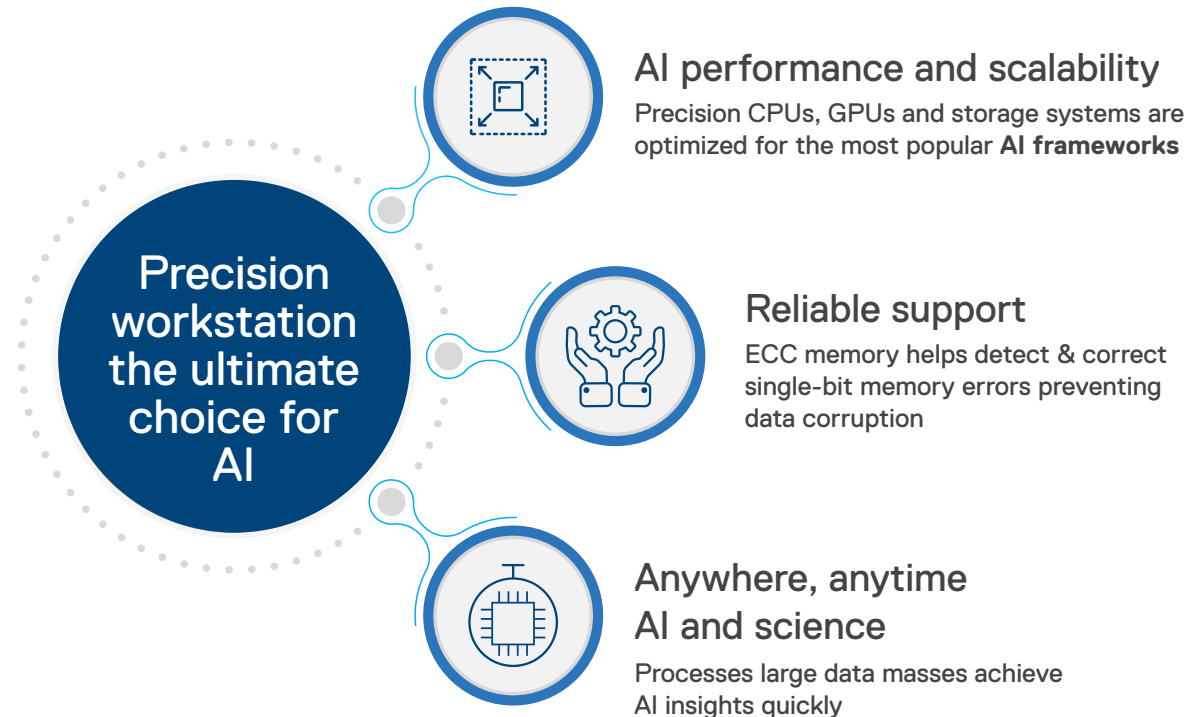
**Rishabh Bezbaura &
Abhronel Ghosh**
DPS East, Bengaluru

An AI enabled assistant to support Autistic patients overcome social and communication challenges by helping them understand the sentiments from a conversation in real time, leading to better interactions.

Choosing the right toolset for building AI Readiness

The social impact project development in AI for Youth, involves working in **image processing, Natural language processing and speech recognition**. This includes a wide array of voluminous data, complex processes and running niche software's like **Intel® OpenVINO™ Toolkit**, so having an artificial intelligence optimized hardware becomes a necessity.

Dell's Precision workstations are an excellent solution for AI workloads as they have been optimized to ensure that your AI hardware and software stack will run fast and without headaches.



Entry level products



Recommended

OptiPlex 7010 Micro

Designed to deliver greater productivity

13th Gen i3-13100, 16GB Memory, 256 GB Storage, Win 11 Pro, 3Yr Onsite Warranty



Recommended

Monitor E2020H

Get enhanced views with the new remodeled e-series monitor.



Optional

Headset WH1022

Enjoy a comfortable and distraction-free learning experience.



Optional

Ultrasharp Webcam WB3023

Experience true-to-life colour with High Dynamic Range (HDR) in most lighting situations.



Enabling students to start their AI journey and run Statistical Data Analytic projects.

Intermediate level products



Recommended

OptiPlex 7010 Tower plus

Desktop solutions that revolve around you.

13th Gen i7-13700, 16 GB Memory, 512GB Storage, Intel® Graphics, Wired Keyboard KB216, Win 11 Pro, 3Yr Onsite Warranty



Optional

Latitude 3330 2-in-1

Get unmatched connectivity and optimized software anywhere.

13.3 FHD touch Display, 3-1125G4 Processor, 8GB Memory, 256GB Storage, Intel(R) UHD Graphics, AX201 Bluetooth 5.2 Wireless, Win 11 Pro, 3Yr Onsite Warranty



Optional

Ultrasharp Webcam WB5023

Professional 2K QHD webcam with outstanding video quality and picture clarity, certified for



Recommended

Monitor P2222H

Stay productive no matter where you work. Featuring ComfortView Plus technology.



Optional

Headset WH3022

Experience great audio clarity with this Teams certified wired headset that provides convenient call controls at your fingertips.



Optional

Pen PN7522W

A stroke of genius is designed as per your convenience.

Enabling students to run Statistical Data Analytics and Natural Language Processing projects along with basic data collection programs.

Advanced level use case

Recommended

Precision 3660

Get elevated visual experience and powerful performance every time.

13th Gen i5-12500 Processor, 16GB Memory, 512GB Storage, Nvidia T400 FH, 3660T 2GB Graphics, AX211 Bluetooth 5.2 Wireless, Win 11 Pro, 3Yr Onsite Warranty



Optional

Latitude 3340 2 in 1

Get unmatched connectivity and optimized software anywhere.

13th Gen i5-1345U, 16 GB Memory, 512 GB Storage, Integrated Intel® Iris® Xe Graphics, Win 11 Pro, 3Yr Onsite Warranty



Recommended

Monitor P2722DE

Experience pure productivity on a 27-inch QHD monitor featuring extensive connectivity and ComfortView Plus.



Optional

Chromebook 5430

The world's smallest 35.56 cm. mainstream business laptop

12th Gen i5-1245U vPro, 16 GB Memory, 256GB Storage, Intel® Wi-Fi 6E AX211, Win 11, 3Yr Onsite Warranty



Enabling students to run Statistical Data Analytics Natural Language Processing and Computer Vision projects with end to end image processing along with complete range of data collection and data processing programs.

Advanced level use case



Optional

Ultrasharp Webcam WB7022

Experience best image quality in its class with the world's most intelligent 4K webcam



Optional

Pen PN7522W

A stroke of genius is designed as per your convenience.



Optional

P6524QT

Bring the team together, whether they are in the room or remote, with this brilliant touch monitor.



Optional

Headset WL7022

Collaborate with ease anywhere with this Teams certified wireless headset with active noise cancellation and smart sensors.



Optional

OptiPlex 7000 XE

Accomplish more every day with greater network flexibility and reliable connections.

i5-12500T Processor, 8GB Memory, 256GB Storage, AX211 Bluetooth 5.2 Wireless, Win 11 Pro, 3Yr Onsite Warranty



Customer experience



We wanted the college to be a tech powerhouse with a focus on AI and evolving and future-ready tech. When we discussed this with Dell Technologies, we came to know they have infrastructure support, courses, faculty training modules, and much more than just labs as a part of this unique program. Dell Technologies and Intel understands the importance of educating the younger generation, especially women.

Dr. KCK. Vijayakumar,
Principal, Vivekanandha College of Engineering for Women

For more information, connect with a Dell Technologies representative at
India.Solutions@Dell.com