Ministry of Electronics and Information Technology
Government of India

Digital India
Power To Empower

NeGD
National e-Governance Division

intel.

Youth for Unnati & Vikas with AI

National program for school students from classes 8-12

INTRODUCTION

Artificial intelligence (AI) has emerged as a critical necessity and poses strategic importance for global economic growth across all industries and sectors. As students today will be the change-makers of tomorrow, we need to empower them with the tools, resources and opportunities to learn new skills and prepare for the future workforce. A skilled and competent workforce is the foundation for the growth of any nation and industry in the digital era. An AI-driven economy requires a new and inclusive approach to build capacities of our youth.

India's own AI Strategies emphasize on skills-based education and experiential learning to harness the immense potential of AI for inclusive growth. The key aim here is to make the next generation AI-ready by democratizing, demystifying and providing access to relevant tools in an inclusive manner.

In 2020, National e-Governance Division (NeGD), Ministry of Electronics & Information Technology (MeitY), Government of India, collaborated with Intel India to implement Responsible AI for Youth - A national program enabling government school students pan India to become AI Ready. Continuing the momentum of this successful skilling program, NeGD, MeitY and Intel India have joined hands again to launch, 'YUVAi- Youth for Unnati and Vikas with AI'- A national program for school students from classes 8-12.

OBJECTIVE

'Youth for Unnati & Vikas with AI' program is aimed to foster a deeper understanding of AI, to enable school students from class 8 to 12 across the nation with AI skills, and empower them to become human-centric designers and users of AI. The program will be ongoing throughout the year to give maximum number of students a chance to empower themselves to be future-ready.

Key Objectives:
- Foster a deeper understanding of AI-tech and social skills
- Enable youth to develop AI-enabled solutions as a sign of achievement
- Empower youth to become human-centric designers and users of AI

The program will be conducted in three phases:

PHASE I

1. The Nodal officers/Teachers will be oriented to provide an overview of the program and their roles and responsibilities. The session details will be shared in advance.
2. Online orientation sessions will be conducted for registered students around core AI concepts by experts to facilitate understanding of the ideation process.
3. 'Certificate of Participation' will be available for students to download through the program web portal post completion of the online orientation.
4. Students will be encouraged to submit Ideas through a 120-second video explaining a proposed AI-enabled solution for any one of the eight core themes.
   - Krishi – AI in Agriculture
   - Aarogya – AI in Healthcare
   - Shiksha – AI in Education
   - Paryavaran – AI in environment & clean energy
   - Parivahan – AI in transportation
   - Grameen Vikas – AI for Rural Development
   - AI for Smart Cities
   - Vidhi aur Nyaay - AI in Law & Justice
5. Students will be able to download their 'Certificate of Appreciation' through the program web portal post successful idea submission.

PHASE II

1. Top 100 AI-based solutions from amongst the proposed ones will be evaluated in this phase by an independent committee of experts.
2. Shortlisted students will attend online deep dive AI training and mentorship sessions conducted by certified Intel AI coaches and experts to delve deeper into the concepts of AI and work on shaping their innovative ideas into social impact projects with continuous handholding and support from mentors.
3. After the online training and mentorship sessions, students will use this newly gained knowledge to develop AI-enabled projects on eight core themes and submit final entries.
4. Post project submission, students will be able to download their 'Certificate of Accomplishment'' through the program web portal.

Phase III

1. Top 50 shortlisted projects will be invited to attend a 4-day face-to-face rapid modeling workshop. Students will be provided with one-on-one mentorships and will gain insights to take their projects to the next level.
2. Students will be provided with apprenticeship and guidance opportunities on IPR
3. Top 10 projects will be shortlisted during the face-to-face workshop. These students will get a chance to showcase their projects on a national platform and will be felicitated for their exemplary work.

TEACHER SELECTION CRITERIA

Teachers can self-nominate themselves for the program by clicking here.

They will join the program as mentors and will help empower students with the necessary mindset and skillsets to prepare them for a technology-led world. Teacher orientation sessions will be organised at regular intervals for them to know more about the program journey and their role in this program. Once they have attended the orientation session and marked their attendance, they can download their certificate.

Teachers can apply/ get selected for this program if they:
- Are a teacher in any school
- Have experience of teaching students from grades 8 and higher in computer science, science, or mathematics.
- Are Tech-savvy and skilled at using internet as a teaching resource
- Are enthusiastic to learn new technology and willing to mentor students
- Have a good track record of representing school at exhibitions, conferences, competitions etc.
- Engage in co-curricular or extra-curricular activities in school
- Use mass media tools for interactive teaching
- Have mentorship and leadership abilities

TIMELINE

S.No.	Activities	Tentative Timeline*
1	Registration opens	April 11, 2023
2	AI Awareness session for Teachers	April 14, 2023 (Once every 90 days)
3	Introductory Sessions for Students in English and Hindi	April 18, 2023 onwards
4	Idea Submission Opens	April 18, 2023 onwards
5	Results - Top 100 shortlisted Ideas (For Cohort 1)	TBD

*Timelines may vary based on the academic calendar of the students and may overlap as well. The program will be ongoing throughout the year to give maximum number of students a chance to empower themselves to be future-ready.

Support

For any queries, you may write to us at ncsupport@digitalindia.gov.in or call on helpline number at +91-9964600800 (9 am to 8 pm; Monday to Friday)

1. Will the students need to pay any fees/charges to be part of this program?
   No. There are no fees/ charges for teachers and/or students to register for the program.

2. What is 'Youth for Unnati & Vikas with AI' about?
   The National e-Governance Division, Ministry of Electronics and Information Technology, Government of India, in collaboration with Intel India, has launched 'Youth for Unnati & Vikas with AI'- A national program for school students from classes 8-12 towards the objective of enabling the school students from class 8th to 12th with AI tech and social skills in an inclusive manner. The program will provide a platform for youth to learn and apply AI skills and be empowered to develop meaningful social impact solutions.

3. Who can participate in this National program?
   Students from pan-India studying in classes 8 to 12 from any State/UT of India are eligible to participate.

4. How to join the online orientation sessions?
   The online orientation is divided into 2 sessions of 2 hours each. Upon registration you will receive the online orientation session details such as the Session Title, Date, Time, Link to join on the mail ID provided.. You can also access the details by logging in to the student dashboard at https://yuvai.negd.in/

5. Are there any prerequisites before I join this program?
   A smartphone or computer with good internet connectivity will be good to go along with an interest to learn something new.

6. Why should I participate in this program?
   Exposure to learn AI from experienced AI coaches and getting a platform to share and collaborate with students of your age-group from across India would be some added advantages along with receiving certificates at various levels. You also get an opportunity to participate in a national level showcase and be felicitated at the highest level innovative solutions leveraging AI. You can visit here to know more - https://yuvai.negd.in/

7. How can I register?
   a. Visit https://yuvai.negd.in/
   b. Click on Register button on the top right side
   c. Upon clicking, you will be redirected to the Student Registration form.
   d. Fill up the required details as asked.
   e. Once you finish filling all the details, check it and click on 'Register'

8. What are the thematic areas?

The students need to submit their ideas under 5 pre decided themes.

   a. कृषि – AI in Agriculture
      - Utilize AI to manage and handle agricultural output and improve India's primary sector of agriculture

   b. आरोग्य – AI in Healthcare
      - Innovate with AI for medical research, patient care and diagnosis, healthcare system automation, and related fields

   c. शिक्षा – AI in Education
      - Engage your imagination to find AI solutions to address learning in digital age, education management, assessment, and learner-centric fields

   d. पर्यावरण – AI in environment & clean energy
      - Develop solutions based on AI to protect and conserve environment and for the adoption of renewable energy sources

   e. परिवहन – AI in transportation
      - Use AI to ease the increasing strain on the transportation systems and networks, logistic infrastructure, accident prevention, intelligent traffic management, and more

   f. ग्रामीण विकास- AI for Rural Development
      - Use AI to promote sustainable and inclusive growth of rural India through solutions aimed at poverty eradication, employment generation, delivery of social security benefits, development of growth infrastructure etc.

   g. स्मार्ट शहर- AI for Smart Cities
      - Utilize AI to promote sustainable and inclusive cities that give a decent quality of life, a clean and sustainable environment through application of some smart solutions.

   h. विधि और न्याय- AI in Law & Justice
      - Utilize AI to promote responsibility, transparency, efficiency and accessibility of the law and justice system.