Al and Education

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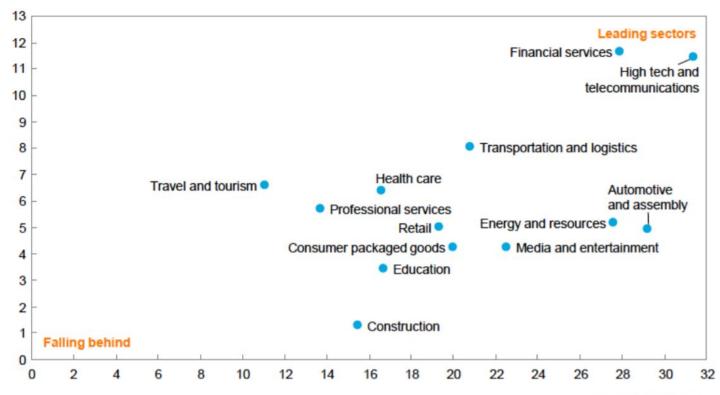
National Strategy for Artificial Intelligence - 2018

Figure 6: Current AI adoption and future AI investments by sector

Future AI demand trajectory¹

Average estimated % change in AI spending, next 3 years, weighted by firm size²

The National Strategy for Artificial Intelligence (NSAI) has successfully brought AI in the center-stage of the reform agenda of the Government by underlining its potential to improve outcomes in sectors such as healthcare, agriculture, or education



Current Al adoption

% of firms adopting one or more AI technology at scale or in a core part of their business, weighted by firm size²

Source: Niti Aayog

National Education Policy - 2020

23.8

Al's disruptive potential in the workplace is clear, and the education system should be poised to respond quickly.

4.25

Mathematics and computational thinking will be given increased emphasis throughout the school years. Activities involving coding will be introduced in Middle Stage.

23.12

As disruptive technologies emerge, schooling and continuing education will assist in raising the general awareness and will address related issues.

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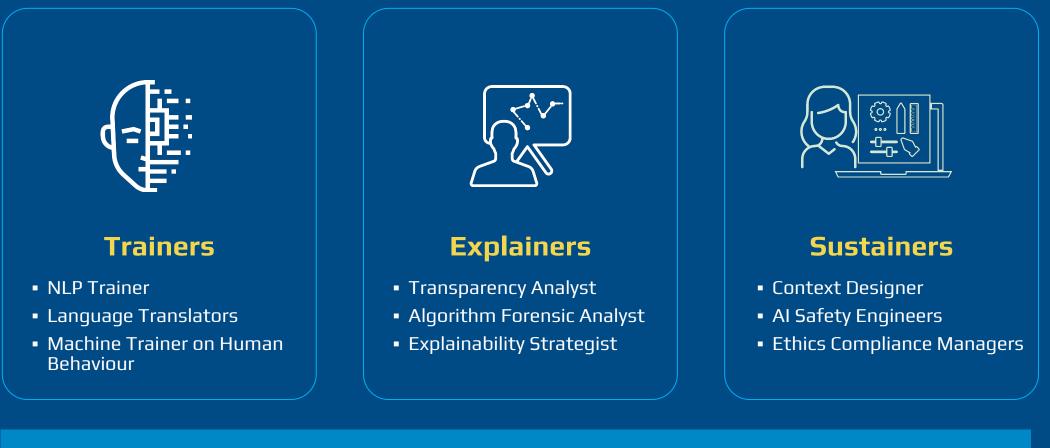
Data is a key fuel for AI-based technologies, and it is critical to raise awareness on issues of privacy, laws, and standards associated, it is also necessary to highlight ethical issues surrounding the development and deployment of AI-based technologies. Education will play a key role in these awareness raising effort.

Building AI readiness is now mission critical

- 65% of children who entered primary school in 2016 will end up working in jobs that don't exist today
- By 2030, more than a third of core skillsets of most occupations will be made up new skills related to emerging technologies



The Rise of New Job Categories with AI



AI Readiness for new "Human Machine Partnership" and Human Centric/Responsible AI

Importance of AI – need of the hour



A skilled and competent workforce is the foundation for growth of any nation and industries, enabling the economy to adjust to disruptions caused in AI world.



An AI driven economy will require a new approach to a nation's education system including ways to empower larger non-technical audiences with AI social and technical skills for real world applications.



There is an urgent need for demystifying AI through appropriate AI readiness programs for current and future workforces

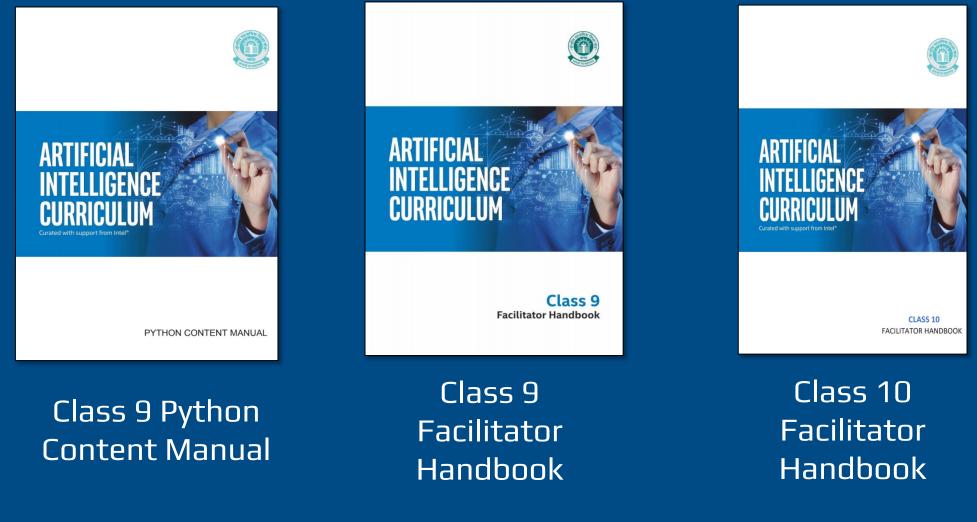
Al is no longer a notion but is the reality it's important that our educational systems expose students to updated technologies and their usage. How are we building an AI – Ready Generation

Al For All – world's largest public awareness program on Al



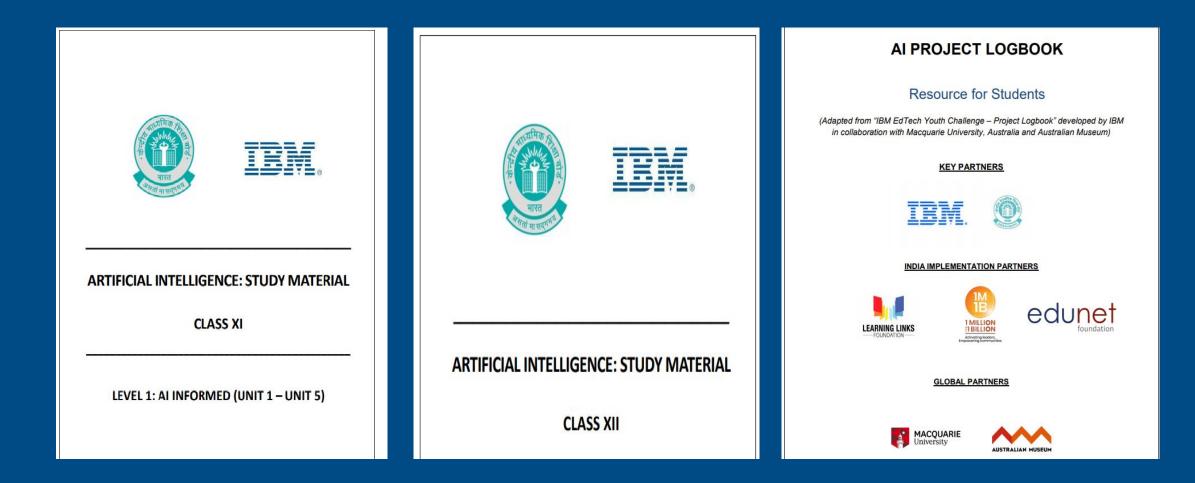
Launched by the honourable Prime Minister on July 29, 2021

AI Education – AI as a skill subject



http://cbseacademic.nic.in/ai.html

http://www.cbseacademic.nic.in/web_material/Curriculum21/publication/srsec/AI_ClassXII_Study_materials.pdf



AI Education impact snapshot - Patents filed by students



Al Domain : Data Science

EPP Location Detector Ayush Gupta & Pranjal Rastogi

Predicting suitable locations for sustainable electronic power plants intelligently.



Al Domain : Data Science

Eco Volt Shubankar Gupta

An Al-based model to monitor the electricity usage of a household to reduce consumption. Al Domain : Computer Vision

Visual Assistant for Blind Ashwin JB

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

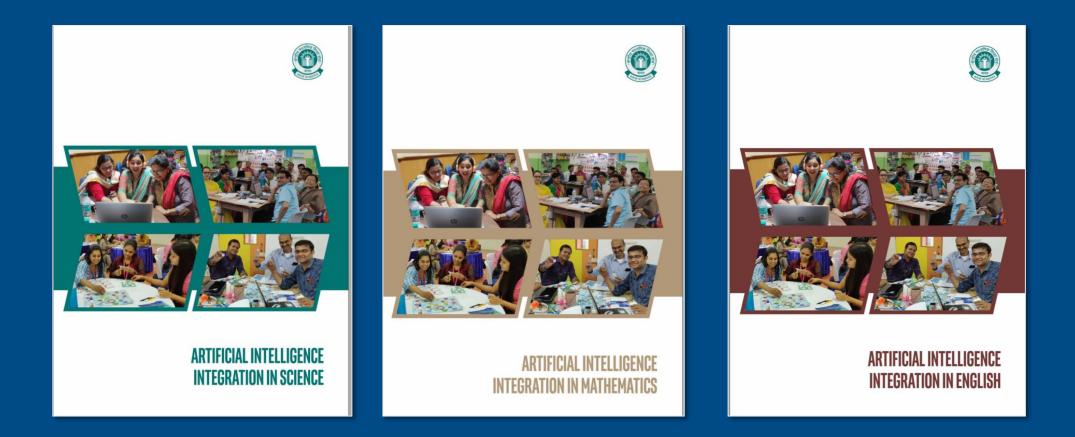


Al Domain : Computer Vision & NLP

Al Autism Assistant Rishabh Bezbaura & Abhroneel Ghosh

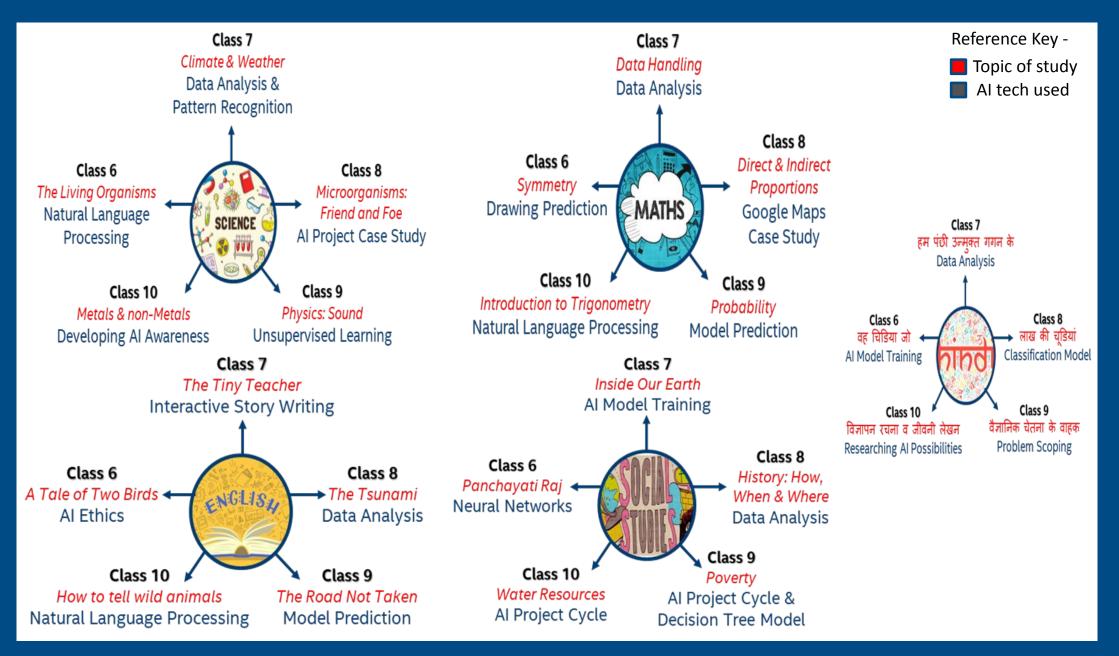
An Al enabled assistant to support Autistic patients overcome social and communication challenges by helping them understand the sentiments from a conversation in real time, leading to better interactions

AI in Education – pedagogical integration



http://cbseacademic.nic.in/ai.html

AI in Education : Lesson plans available in Diksha portal



Thanks

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